Unittest for smart_brain

February 15, 2023

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1 Test System Information

System Informat	ion
Architecture	64bit
Machine	x86_64
Hostname	ahorn
Distribution	Linux Mint 21.1 (vera)
System	Linux
Kernel	5.15.0-60-generic (#66-Ubuntu SMP Fri Jan 20 14:29:49 UTC 2023)
Username	dirk
Path	$/home/dirk/my_repositories/smarthome/smart_brain_test$

2 Test Object Information

Test object Information	on
Test Object Name	smart_brain
Test Object Vesion	1.2.0
GIT repository	https://git.mount-mockery.de/smarthome/smart_brain.git
GIT reference	f3ed72974e5fd3bf932ab78acdf0a1d6154dd733

3 Summary

Number of tests	67
Number of successfull tests	67
Number of possibly failed tests	0
Number of failed tests	0
Executionlevel	Full Test (all defined tests)
Time consumption	84.664s

4 Testcases (Success)

4.1 Power On/Off test for device and virtual device: zigbee/ffe/diningroom/powerplug_floorlamp

Testsummary

This test was passed with the state: Success.

Caller:	/home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)
Start-Time:	2023-02-15 07:13:23,206
Finished-Time:	2023-02-15 07:13:24,415
Time-Consumption	1.209s
Testresults:	

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Testdetails	Vistoral device state in compat (Contact False and Time in Colony theory)
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Re	sult (Virtual device state): False (<class 'bool'="">)</class>
	<pre>rpectation (Virtual device state): result = False (<class 'bool'="">)</class></pre>
Info Ch	anging switching device state to 'True'
	uniging switching device state to True
Se	ending message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload {"state": "on"}
	ceived message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload b'{"state": "off"}'
Re	ceived message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload b'{"state": "off"}'
	ceived message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload b'{"state": "off"}'
	ceived message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload b'{"state": "off"}'
Re	ceived message with topic videv/ffe/livingroom/main_light/state and payload b'false'
Re	ceived message with topic videv/stw/stairway/main_light/state and payload b'false'
Re	ceived message with topicinfo and payload b'null'
Re	ceived message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload b'{"state": "on"}'
Re	{"url": "https://git.mount-mockery.de/smarthome/smart_brain.git", "ref":
Re	ceived message with topic videv/ffe/diningroom/floorlamp/state and payload b'true'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Re	sult (Virtual device state): True (<class 'bool'="">)</class>
Ex	rpectation (Virtual device state): result = True (<class 'bool'="">)</class>

```
Success
          Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/ffe/diningroom/floorlamp/state/set and payload false
       Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp/set and payload
       → b'{"state": "off"}'
       Sending message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload
       \hookrightarrow {"state": "off"}
       Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload
       \rightarrow b'{"state": "off"}'
       Received message with topic videv/ffe/diningroom/floorlamp/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
Success
          Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload
          {"state": "on"}
       Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload
       → b'{"state": "on"}'
       Received message with topic videv/ffe/diningroom/floorlamp/state and payload b'true'
Success
          Virtual device state is correct (Content True and Type is <class 'bool'>).
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
          Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
```

Info	Changing virtual device state to 'False'
	Sending message with topic videv/ffe/diningroom/floorlamp/state/set and payload false
	Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp/set and payload b'{"state": "off"}'
	Sending message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload Graduate of the state of th
	Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload b'{"state": "off"}'
	Received message with topic videv/ffe/diningroom/floorlamp/state and payload b'false'
Succe	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
	Result (Switching device state): False (<class 'bool'="">)</class>
	<pre>Expectation (Switching device state): result = False (<class 'bool'="">)</class></pre>

4.2 Power On/Off test for device and virtual device: shellies/ffe/diningroom/main_light

Testsummary

This test was passed with the state: Success.

Caller:	/home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:13:24,416 Finished-Time: 2023-02-15 07:13:25,627

Time-Consumption	1.211s
Testresults:	
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>

Testdetails

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Result (Virtual device state): False (<class 'bool'>)

```
Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic shellies/ffe/diningroom/main_light/relay/0 and payload on
       Received message with topic shellies/ffe/diningroom/main_light/relay/0 and payload
       \hookrightarrow b'on'
       Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp/set and payload
       \rightarrow b'{"state": "on"}'
       Sending message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload
       Received message with topic videv/ffe/diningroom/main_light/state and payload b'true'
       Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload
       → b'{"state": "on"}'
       Received message with topic videv/ffe/diningroom/floorlamp/state and payload b'true'
         Virtual device state is correct (Content True and Type is <class 'bool'>).
Success
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
         Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/ffe/diningroom/main_light/state/set and payload false
       Received message with topic shellies/ffe/diningroom/main_light/relay/0/command and
       → payload b'off'
       Sending message with topic shellies/ffe/diningroom/main_light/relay/0 and payload off
       Received message with topic shellies/ffe/diningroom/main_light/relay/0 and payload
       Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp/set and payload
       \rightarrow b'{"state": "off"}'
       Sending message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload
       Received message with topic videv/ffe/diningroom/main_light/state and payload b'false'
       Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload
       \rightarrow b'{"state": "off"}'
       Received message with topic videv/ffe/diningroom/floorlamp/state and payload b'false'
Success
         Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
```

```
Expectation (Switching device state): result = False (<class 'bool'>)
         Virtual device state is correct (Content False and Type is <class 'bool'>).
Success
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
      Sending message with topic shellies/ffe/diningroom/main_light/relay/0 and payload on
      Received message with topic shellies/ffe/diningroom/main_light/relay/0 and payload
       \hookrightarrow b'on'
      Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp/set and payload
       → b'{"state": "on"}'
      Sending message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload
       Received message with topic videv/ffe/diningroom/main_light/state and payload b'true'
      Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload
       \rightarrow b'{"state": "on"}'
      Received message with topic videv/ffe/diningroom/floorlamp/state and payload b'true'
Success
         Virtual device state is correct (Content True and Type is <class 'bool'>).
      Result (Virtual device state): True (<class 'bool'>)
      Expectation (Virtual device state): result = True (<class 'bool'>)
         Switching device state is correct (Content True and Type is <class 'bool'>).
Success
      Result (Switching device state): True (<class 'bool'>)
      Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
      Sending message with topic videv/ffe/diningroom/main_light/state/set and payload false
      Received message with topic shellies/ffe/diningroom/main_light/relay/0/command and
       → payload b'off'
      Sending message with topic shellies/ffe/diningroom/main_light/relay/0 and payload off
      Received message with topic shellies/ffe/diningroom/main_light/relay/0 and payload
       → b'off'
      Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp/set and payload
       \rightarrow b'{"state": "off"}'
      Sending message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload
       Received message with topic videv/ffe/diningroom/main_light/state and payload b'false'
```

Received message with topic videv/ffe/diningroom/floorlamp/state and payload b'false'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

```
Result (Switching device state): False (<class 'bool'>)

Expectation (Switching device state): result = False (<class 'bool'>)
```

4.3 Power On/Off synchronisation test: shellies/ffe/diningroom/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/synchronisation.py (24)

Start-Time: 2023-02-15 07:13:25,627 Finished-Time: 2023-02-15 07:13:26,532

Time-Consumption 0.905s

Testresults:

Info Setting preconditions for master device 'False'
Changing master device state to 'True'

Success Follower device (zigbee/ffe/diningroom/powerplug_floorlamp) state is correct (Content True

and Type is <class 'bool'>).

Info Changing master device state to 'False'

Success Follower device (zigbee/ffe/diningroom/powerplug_floorlamp) state is correct (Content False

and Type is <class 'bool'>).

Testdetails

Info Setting preconditions for master device 'False'

Info Changing master device state to 'True'

Sending message with topic shellies/ffe/diningroom/main_light/relay/0 and payload on

Received message with topic shellies/ffe/diningroom/main_light/relay/0 and payload

b'on'

Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp/set and payload

 \rightarrow b'{"state": "on"}'

Sending message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload

Received message with topic videv/ffe/diningroom/main_light/state and payload b'true'

 ${\tt Received\ message\ with\ topic\ zigbee/ffe/diningroom/powerplug_floorlamp\ and\ payload}$

 $_{\hookrightarrow} \quad \texttt{b'{"state": "on"}'} \\$

Received message with topic videv/ffe/diningroom/floorlamp/state and payload b'true'

Success Follower device (zigbee/ffe/diningroom/powerplug_floorlamp) state is correct (Content True and Type is <class 'bool'>). Result (Follower device (zigbee/ffe/diningroom/powerplug_floorlamp) state): True Expectation (Follower device (zigbee/ffe/diningroom/powerplug_floorlamp) state): → result = True (<class 'bool'>) Info Changing master device state to 'False' Sending message with topic shellies/ffe/diningroom/main_light/relay/O and payload off Received message with topic shellies/ffe/diningroom/main_light/relay/0 and payload ⇔ b'off' Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp/set and payload b'{"state": "off"}' Sending message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload {"state": "off"} Received message with topic videv/ffe/diningroom/main_light/state and payload b'false' Received message with topic zigbee/ffe/diningroom/powerplug_floorlamp and payload b'{"state": "off"}' Received message with topic videv/ffe/diningroom/floorlamp/state and payload b'false' Success Follower device (zigbee/ffe/diningroom/powerplug_floorlamp) state is correct (Content False and Type is <class 'bool'>). Result (Follower device (zigbee/ffe/diningroom/powerplug_floorlamp) state): False (<class 'bool'>) Expectation (Follower device (zigbee/ffe/diningroom/powerplug_floorlamp) state): → result = False (<class 'bool'>)

4.4 Power On/Off test for device and virtual device: shellies/ffe/floor/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:13:26,533 Finished-Time: 2023-02-15 07:13:27,743

Time-Consumption 1.210s

Testresults:

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Info Changing switching device state to 'True'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Success	5 6 ((()
Info	Changing virtual device state to 'False'
Success	,
Success	(
Info	Changing switching device state to 'True'
Success	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Success	
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Testdetai	ls.
Success	
	Virtual device state is correct (content raise and Type is <class boot="">).</class>
	Result (Virtual device state): False (<class 'bool'="">)</class>
	<pre>Expectation (Virtual device state): result = False (<class 'bool'="">)</class></pre>
	•
Info	Changing switching device state to 'True'
	Sending message with topic shellies/ffe/floor/main_light/relay/0 and payload on
	Received message with topic shellies/ffe/floor/main_light/relay/0 and payload b'on'
	Received message with topic videv/ffe/floor/main_light/state and payload b'true'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
	Result (Virtual device state): True (<class 'bool'="">)</class>
	<pre>Expectation (Virtual device state): result = True (<class 'bool'="">)</class></pre>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
	Result (Switching device state): True (<class 'bool'="">)</class>
	Expectation (Switching device state): result = True (<class 'bool'="">)</class>
Info	Changing virtual device state to 'False'
	Sending message with topic videv/ffe/floor/main_light/state/set and payload false
	Received message with topic shellies/ffe/floor/main_light/relay/0/command and payload
	<pre>→ b'off'</pre>
	Sending message with topic shellies/ffe/floor/main_light/relay/0 and payload off
	Received message with topic shellies/ffe/floor/main_light/relay/O and payload b'off'
	Received message with topic videv/ffe/floor/main_light/state and payload b'false'
	necetived message with topic videv/fre/froor/main_frent/state and payroad b raise
<u> </u>	C. Maline I. Novaleta in a conference of Table 2017.
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
	Result (Switching device state): False (<class 'bool'="">)</class>
	TODATO (DATOUTINE GOATOO BOGOO). Latbe (veraps boot)

Expectation (Switching device state): result = False (<class 'bool'>)

```
Success
          Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic shellies/ffe/floor/main_light/relay/0 and payload on
       Received message with topic shellies/ffe/floor/main_light/relay/0 and payload b'on'
       Received message with topic videv/ffe/floor/main_light/state and payload b'true'
          Virtual device state is correct (Content True and Type is <class 'bool'>).
Success
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
          Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/ffe/floor/main_light/state/set and payload false
       Received message with topic shellies/ffe/floor/main_light/relay/0/command and payload
       \hookrightarrow b'off'
       Sending message with topic shellies/ffe/floor/main_light/relay/0 and payload off
       Received message with topic shellies/ffe/floor/main_light/relay/0 and payload b'off'
       Received message with topic videv/ffe/floor/main_light/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
```

4.5 Power On/Off test for device and virtual device: shellies/ffe/kitchen/circulation_pump

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:13:27,744 Finished-Time: 2023-02-15 07:13:28,953

Time-Consumption	1.210s
Testresults:	
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>

Switching device state is correct (Content True and Type is <class 'bool'>).

Switching device state is correct (Content False and Type is <class 'bool'>).

Changing virtual device state to 'False'

Testdetails

Success Info

Success

Testdeta	IIS
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
	Result (Virtual device state): False (<class 'bool'="">)</class>
	<pre>Expectation (Virtual device state): result = False (<class 'bool'="">)</class></pre>
Info	Changing switching device state to 'True'
	Sending message with topic shellies/ffe/kitchen/circulation_pump/relay/0 and payload on
	Received message with topic shellies/ffe/kitchen/circulation_pump/relay/0 and payload \rightarrow b'on'
	Received message with topic videv/ffe/kitchen/circulation_pump/timer and payload \rightarrow b'600'
	Received message with topic shellies/ffe/kitchen/main_light/relay/0/command and payload b'on'
	Sending message with topic shellies/ffe/kitchen/main_light/relay/0 and payload on
	Received message with topic videv/ffe/kitchen/circulation_pump/state and payload b'true'
	Received message with topic shellies/ffe/kitchen/main_light/relay/0 and payload b'on'
	Received message with topic videv/ffe/kitchen/main_light/state and payload b'true'

```
Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Result (Virtual device state): True (<class 'bool'>)

Expectation (Virtual device state): result = True (<class 'bool'>)
```

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Result (Switching device state): True (<class 'bool'>)

	<pre>Expectation (Switching device state): result = True (<class 'bool'="">)</class></pre>
Info	Changing virtual device state to 'False'
	Sending message with topic videv/ffe/kitchen/circulation_pump/state/set and payload
	Received message with topic shellies/ffe/kitchen/circulation_pump/relay/0/command and $\ _{\hookrightarrow}\ $ payload b'off'
	Sending message with topic shellies/ffe/kitchen/circulation_pump/relay/0 and payload $_{\hookrightarrow}$ off
	Received message with topic shellies/ffe/kitchen/main_light/relay/0/command and payload b'off'
	Sending message with topic shellies/ffe/kitchen/main_light/relay/0 and payload off
	Received message with topic shellies/ffe/kitchen/circulation_pump/relay/0 and payload \hookrightarrow b'off'
	Received message with topic shellies/ffe/kitchen/main_light/relay/0 and payload b'off'
	Received message with topic videv/ffe/kitchen/circulation_pump/timer and payload b'0'
	Received message with topic videv/ffe/kitchen/circulation_pump/state and payload \hookrightarrow b'false'
	Received message with topic videv/ffe/kitchen/main_light/state and payload b'false'
Succe	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
	Result (Switching device state): False (<class 'bool'="">)</class>
	<pre>Expectation (Switching device state): result = False (<class 'bool'="">)</class></pre>
Succe	SS Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
	Result (Virtual device state): False (<class 'bool'="">)</class>
	<pre>Expectation (Virtual device state): result = False (<class 'bool'="">)</class></pre>
Info	Changing switching device state to 'True'
	Sending message with topic shellies/ffe/kitchen/circulation_pump/relay/0 and payload $_{\hookrightarrow}$ on
	Received message with topic shellies/ffe/kitchen/circulation_pump/relay/0 and payload \rightarrow b'on'
	Received message with topic videv/ffe/kitchen/circulation_pump/timer and payload $_{\hookrightarrow}$ b'600'
	Received message with topic shellies/ffe/kitchen/main_light/relay/0/command and payload b'on'
	Sending message with topic shellies/ffe/kitchen/main_light/relay/0 and payload on
	Received message with topic videv/ffe/kitchen/circulation_pump/state and payload b'true'
	Received message with topic shellies/ffe/kitchen/main_light/relay/0 and payload b'on'

Received message with topic videv/ffe/kitchen/main_light/state and payload b'true' Virtual device state is correct (Content True and Type is <class 'bool'>). Success Result (Virtual device state): True (<class 'bool'>) Expectation (Virtual device state): result = True (<class 'bool'>) Switching device state is correct (Content True and Type is <class 'bool'>). Success Result (Switching device state): True (<class 'bool'>) Expectation (Switching device state): result = True (<class 'bool'>) Info Changing virtual device state to 'False' Sending message with topic videv/ffe/kitchen/circulation_pump/state/set and payload Received message with topic shellies/ffe/kitchen/main_light/relay/0/command and → payload b'off' Sending message with topic shellies/ffe/kitchen/main_light/relay/0 and payload off Received message with topic shellies/ffe/kitchen/main_light/relay/0 and payload b'off' Received message with topic shellies/ffe/kitchen/circulation_pump/relay/0/command and → payload b'off' Sending message with topic shellies/ffe/kitchen/circulation_pump/relay/0 and payload Received message with topic videv/ffe/kitchen/main_light/state and payload b'false' Received message with topic shellies/ffe/kitchen/circulation_pump/relay/0 and payload Received message with topic videv/ffe/kitchen/circulation_pump/timer and payload b'0' Received message with topic videv/ffe/kitchen/circulation_pump/state and payload \hookrightarrow b'false' Success Switching device state is correct (Content False and Type is <class 'bool'>). Result (Switching device state): False (<class 'bool'>) Expectation (Switching device state): result = False (<class 'bool'>)

4.6 Power On/Off test for device and virtual device: shellies/ffe/kitchen/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:13:28,954 Finished-Time: 2023-02-15 07:13:30,164

Time-0	Consumption	1.210s
Testre	esults:	
Succe	ess	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info		Changing switching device state to 'True'
Succe	ess	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Succe		
Info		Changing virtual device state to 'False'
Succe	ess	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Succe	ess	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info		Changing switching device state to 'True'
Succe	ess	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Succe	ess	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info		Changing virtual device state to 'False'
Succe	ess	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Testdet	raila	
Succe		device state is correct (Content False and Type is <class 'bool'="">).</class>
	/**	
		irtual device state): False (<class 'bool'="">)</class>
	Expectation	on (Virtual device state): result = False (<class 'bool'="">)</class>
Info	Changing sw	vitching device state to 'True'
	Sending ma	essage with topic shellies/ffe/kitchen/main_light/relay/0 and payload on
		message with topic shellies/ffe/kitchen/main_light/relay/0 and payload b'on'
	Received r	message with topic videv/ffe/kitchen/main_light/state and payload b'true'
Succe	ss Virtual o	device state is correct (Content True and Type is <class 'bool'="">).</class>
	Result (V	irtual device state): True (<class 'bool'="">)</class>
		on (Virtual device state): result = True (<class 'bool'="">)</class>
	Expectation	on (virtual device state): result - frue (Class boor /)
Succe	ss Switchin	g device state is correct (Content True and Type is <class 'bool'="">).</class>
	Result (St	witching device state): True (<class 'bool'="">)</class>
	Expectation	on (Switching device state): result = True (<class 'bool'="">)</class>
		on (ownering device beats), I repair True (retable beet 1)
Info	Changing vir	tual device state to 'False'
	Sending me	essage with topic videv/ffe/kitchen/main_light/state/set and payload false
		· · · · · · · · · · · · · · · · · · ·
		message with topic shellies/ffe/kitchen/main_light/relay/0/command and b'off'
		essage with topic shellies/ffe/kitchen/main_light/relay/0 and payload off
	Received r	message with topic shellies/ffe/kitchen/main_light/relay/O and payload b'off

Received message with topic videv/ffe/kitchen/main_light/state and payload b'false'

```
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
Success
          Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
       Changing switching device state to 'True'
       Sending message with topic shellies/ffe/kitchen/main_light/relay/0 and payload on
       Received message with topic shellies/ffe/kitchen/main_light/relay/0 and payload b'on'
       Received message with topic videv/ffe/kitchen/main_light/state and payload b'true'
Success
          Virtual device state is correct (Content True and Type is <class 'bool'>).
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
          Switching device state is correct (Content True and Type is <class 'bool'>).
Success
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/ffe/kitchen/main_light/state/set and payload false
       Received message with topic shellies/ffe/kitchen/main_light/relay/0/command and
       → payload b'off'
       Sending message with topic shellies/ffe/kitchen/main_light/relay/0 and payload off
       Received message with topic shellies/ffe/kitchen/main_light/relay/0 and payload b'off'
       Received message with topic videv/ffe/kitchen/main_light/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
```

4.7 Brightness test for device and virtual device: zigbee/ffe/livingroom/floorlamp_1

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (50)

Start-Time: 2023-02-15 07:13:30.165 Finished-Time: 2023-02-15 07:13:31,978

Time-Consumption 1.814s

		_	
Tes	+	I	+~:

Info	Setting preconditions (Power on)
Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Changing light device brightness to '65'
Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Info	Changing virtual device brightness to '50'
Success	Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Changing light device brightness to '65'
Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>

Changing virtual device brightness to '50' Success Light device brightness is correct (Content 50 and Type is <class 'int'>).

Resetting precondition (Power off) Info

Testdetails

Info

```
Info
       Setting preconditions (Power on)
```

```
Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
→ "on", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
   "on", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'true'
Received message with topic videv/ffe/livingroom/floorlamp/brightness and payload
\hookrightarrow b'50'
```

Received message with topic videv/ffe/livingroom/floorlamp/color_temp and payload b'5'

```
Success
           Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
```

```
Result (Virtual device brightness): 50 (<class 'int'>)
Expectation (Virtual device brightness): result = 50 (<class 'int'>)
```

Info Changing light device brightness to '65'

```
Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
→ "on", "brightness": 165.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
    "on", "brightness": 165.0, "color_temp": 352.0}'
Received message with topic videv/ffe/livingroom/floorlamp/brightness and payload
→ b'65'
```

```
Success
          Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
Success
          Light device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/ffe/livingroom/floorlamp/brightness/set and payload
       Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

    b'{"brightness": 128}'

       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
       → b'{"brightness": 128}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload

    b'{"brightness": 128}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload

    b'{"brightness": 128}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload

    b'{"brightness": 128}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload

    b'{"brightness": 128}'

       Received message with topic videv/ffe/livingroom/floorlamp/brightness and payload
       \hookrightarrow b'50'
Success
          Light device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Light device brightness): 50 (<class 'int'>)
       Expectation (Light device brightness): result = 50 (<class 'int'>)
Success
          Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Virtual device brightness): 50 (<class 'int'>)
       Expectation (Virtual device brightness): result = 50 (<class 'int'>)
```

```
Info
      Changing light device brightness to '65'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 165.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 165.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/floorlamp/brightness and payload
       → b'65'
          Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
Success
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
Success
          Light device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/ffe/livingroom/floorlamp/brightness/set and payload
       \,\hookrightarrow\, 50
       Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

    b'{"brightness": 128}'

       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
       → b'{"brightness": 128}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload

    b'{"brightness": 128}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload

    b'{"brightness": 128}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload

    b'{"brightness": 128}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload

    b'{"brightness": 128}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/floorlamp/brightness and payload
       \hookrightarrow b'50'
Success
          Light device brightness is correct (Content 50 and Type is <class 'int'>).
```

Result (Light device brightness): 50 (<class 'int'>)

```
Expectation (Light device brightness): result = 50 (<class 'int'>)
Info
      Resetting precondition (Power off)
      Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'false'
```

4.8 Color temperature test for device and virtual device: zigbee/ffe/livingroom/floorlamp_1

Testsummary

This test was passed with the state: Success.

Caller:	/home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (81)
Start-Time:	2023-02-15 07:13:31,979
Finished-Time:	2023-02-15 07:13:33 702

Time-Consumption 1.813s

- .		
Testres	ults:	

Testresults:	
Info	Setting preconditions (Power on)
Success	Virtual device color temperature is correct (Content 5 and Type is <class 'int'="">).</class>
Info	Changing light device color temperature to '5'
Success	Virtual device color temperature is correct (Content 8 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 8 and Type is <class 'int'="">).</class>
Info	Changing virtual device color temperature to '5'
Success	Light device brightness is correct (Content 5 and Type is <class 'int'="">).</class>
Success	Virtual device color temperature is correct (Content 5 and Type is <class 'int'="">).</class>
Info	Changing light device color temperature to '5'
Success	Virtual device color temperature is correct (Content 8 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 8 and Type is <class 'int'="">).</class>
Info	Changing virtual device color temperature to '5'
Success	Light device brightness is correct (Content 5 and Type is <class 'int'="">).</class>
Info	Resetting precondition (Power off)

Testdetails

```
Info
      Setting preconditions (Power on)
      Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
          "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'true'
```

Virtual device color temperature is correct (Content 5 and Type is <class 'int'>). Success

```
Result (Virtual device color temperature): 5 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 5 (<class 'int'>)
Info
      Changing light device color temperature to '5'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 413.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 413.0}'
       Received message with topic videv/ffe/livingroom/floorlamp/color_temp and payload b'8'
Success
          Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
       Result (Virtual device color temperature): 8 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
Success
          Light device brightness is correct (Content 8 and Type is <class 'int'>).
       Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
Info
      Changing virtual device color temperature to '5'
       Sending message with topic videv/ffe/livingroom/floorlamp/color_temp/set and payload 5
       Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload
       \rightarrow b'{"color_temp": 352}'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
       \rightarrow b'{"color_temp": 352}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload
       \rightarrow b'{"color_temp": 352}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload
       \rightarrow b'{"color_temp": 352}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload
       \rightarrow b'{"color_temp": 352}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
       \rightarrow b'{"color_temp": 352}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
          "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/floorlamp/color_temp and payload b'5'
          Light device brightness is correct (Content 5 and Type is <class 'int'>).
Success
```

Result (Light device brightness): 5 (<class 'int'>)

```
Expectation (Light device brightness): result = 5 (<class 'int'>)
         Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).
Success
       Result (Virtual device color temperature): 5 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 5 (<class 'int'>)
Info
      Changing light device color temperature to '5'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 413.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 413.0}'
       Received message with topic videv/ffe/livingroom/floorlamp/color_temp and payload b'8'
         Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
Success
       Result (Virtual device color temperature): 8 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
Success
         Light device brightness is correct (Content 8 and Type is <class 'int'>).
       Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
Info
      Changing virtual device color temperature to '5'
       Sending message with topic videv/ffe/livingroom/floorlamp/color_temp/set and payload 5
       Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

    b'{"color_temp": 352}'

       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
          "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload

    b'{"color_temp": 352}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload

    b'{"color_temp": 352}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload
       \rightarrow b'{"color_temp": 352}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload

    b'{"color_temp": 352}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload

    b'{"color_temp": 352}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
```

Received message with topic videv/ffe/livingroom/floorlamp/color_temp and payload b'5'

```
Success Light device brightness is correct (Content 5 and Type is <class 'int'>).

Result (Light device brightness): 5 (<class 'int'>)

Expectation (Light device brightness): result = 5 (<class 'int'>)

Info Resetting precondition (Power off)

Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":

"off", "brightness": 127.0, "color_temp": 352.0}

Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":

"off", "brightness": 127.0, "color_temp": 352.0}'

Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'false'
```

4.9 Power On/Off test for device and virtual device: zigbee/ffe/livingroom/floorlamp_1

Testsummary

This test was passed with the state: Success.

Caller:	/home/dirk/my_re	oositories/smarthome/smart	_brain_test/tests/light.py (27)
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Start-Time: 2023-02-15 07:13:33,793 Finished-Time: 2023-02-15 07:13:35,004

Time-Consumption 1.211s

Testr	esul [.]	ts:
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restresuits:	
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
	<u> </u>

Testdetails

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

```
Result (Virtual device state): False (<class 'bool'>)

Expectation (Virtual device state): result = False (<class 'bool'>)
```

Info Changing switching device state to 'True'

```
Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'true'
          Virtual device state is correct (Content True and Type is <class 'bool'>).
Success
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
          Switching device state is correct (Content True and Type is <class 'bool'>).
Success
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/ffe/livingroom/floorlamp/state/set and payload false
       Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

    b'{"state": "off"}'

       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
       → b'{"state": "off"}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload
       \rightarrow b'{"state": "off"}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload
       \rightarrow b'{"state": "off"}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload
       \rightarrow b'{"state": "off"}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
       → b'{"state": "off"}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
          Virtual device state is correct (Content False and Type is <class 'bool'>).
Success
```

Result (Virtual device state): False (<class 'bool'>)

```
Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
           "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'true'
Success
         Virtual device state is correct (Content True and Type is <class 'bool'>).
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
         Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/ffe/livingroom/floorlamp/state/set and payload false
       Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload
       \rightarrow b'{"state": "off"}'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
       \rightarrow b'{"state": "off"}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload

    b'{"state": "off"}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload

    b'{"state": "off"}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload
       \rightarrow b'{"state": "off"}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload

    b'{"state": "off"}'

       Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
```

4.10 Brightness test for device and virtual device: zigbee/ffe/livingroom/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (50)

Start-Time: 2023-02-15 07:13:35,005 Finished-Time: 2023-02-15 07:13:36,817

Time-Consumption 1.812s

Testresults:

Info	Setting preconditions (Power on)
Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Changing light device brightness to '65'
Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Info	Changing virtual device brightness to '50'
Success	Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Changing light device brightness to '65'
Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Info	Changing virtual device brightness to '50'
Success	Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Resetting precondition (Power off)

Taatdataila

Testde	Testdetails		
Info	Setting preconditions (Power on)		
	Sending message with topic shellies/ffe/livingroom/main_light/relay/0 and payload on		
	Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state": on", "brightness": 127.0, "color_temp": 352.0}		
	Received message with topic shellies/ffe/livingroom/main_light/relay/0 and payload \rightarrow b'on'		
	Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state": on", "brightness": 127.0, "color_temp": 352.0}'		
	Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload b'{"state": "on"}'		
	Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state": on", "brightness": 127.0, "color_temp": 352.0}		
	Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload b'{"state": "on"}'		
	Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state": on", "brightness": 127.0, "color_temp": 352.0}		
	Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload		

```
Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload

    b'{"state": "on"}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload
       \rightarrow b'{"state": "on"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
       \rightarrow b'{"state": "on"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic videv/ffe/livingroom/main_light/state and payload b'true'
      Received message with topic videv/ffe/livingroom/main_light/brightness and payload
       \hookrightarrow b'50'
      Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
       Received message with topic videv/ffe/livingroom/main_light/color_temp and payload

→ b'5'

      Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
           "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'true'
      Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
       \hookrightarrow "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
         Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
Success
      Result (Virtual device brightness): 50 (<class 'int'>)
      Expectation (Virtual device brightness): result = 50 (<class 'int'>)
Info
      Changing light device brightness to '65'
      Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state":
       → "on", "brightness": 165.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state":
       → "on", "brightness": 165.0, "color_temp": 352.0}'
```

```
Received message with topic videv/ffe/livingroom/main_light/brightness and payload
       → b'65'
Success
          Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
Success
          Light device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/ffe/livingroom/main_light/brightness/set and payload
       \,\hookrightarrow\, 50
       Received message with topic zigbee/ffe/livingroom/main_light/set and payload

    b'{"brightness": 128}'

       Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/main_light/brightness and payload
       \hookrightarrow b'50'
          Light device brightness is correct (Content 50 and Type is <class 'int'>).
Success
       Result (Light device brightness): 50 (<class 'int'>)
       Expectation (Light device brightness): result = 50 (<class 'int'>)
          Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
Success
       Result (Virtual device brightness): 50 (<class 'int'>)
       Expectation (Virtual device brightness): result = 50 (<class 'int'>)
Info
      Changing light device brightness to '65'
       Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state":
       → "on", "brightness": 165.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state":
       → "on", "brightness": 165.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/main_light/brightness and payload
       \rightarrow b'65'
```

```
Success
         Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
Success
         Light device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/ffe/livingroom/main_light/brightness/set and payload
       Received message with topic zigbee/ffe/livingroom/main_light/set and payload

    b'{"brightness": 128}'

       Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/main_light/brightness and payload
       → b'50'
         Light device brightness is correct (Content 50 and Type is <class 'int'>).
Success
       Result (Light device brightness): 50 (<class 'int'>)
       Expectation (Light device brightness): result = 50 (<class 'int'>)
Info
      Resetting precondition (Power off)
       Sending message with topic shellies/ffe/livingroom/main_light/relay/0 and payload off
       Received message with topic shellies/ffe/livingroom/main_light/relay/0 and payload
       ⇔ b'off'
       Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload
          b'{"state": "off"}'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
          "off", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
          b'{"state": "off"}'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
          "off", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload
       → b'{"state": "off"}'
```

```
Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload

    b'{"state": "off"}'

Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload

    b'{"state": "off"}'

Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload

    b'{"state": "off"}'

Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic videv/ffe/livingroom/main_light/state and payload b'false'
Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":

    "off", "brightness": 127.0, "color_temp": 352.0}

Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
\rightarrow "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":

    "off", "brightness": 127.0, "color_temp": 352.0}

Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":

    "off", "brightness": 127.0, "color_temp": 352.0}

Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
    "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'false'
```

4.11 Color temperature test for device and virtual device: zigbee/ffe/livingroom/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (81)

Start-Time: 2023-02-15 07:13:36,818 Finished-Time: 2023-02-15 07:13:38,632

Time-Consumption 1.814s

Testresults:

Info	Setting preconditions (Power on)
Success	Virtual device color temperature is correct (Content 5 and Type is <class 'int'="">).</class>
Info	Changing light device color temperature to '5'
Success	Virtual device color temperature is correct (Content 8 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 8 and Type is <class 'int'="">).</class>

Info	Changing virtual device color temperature to '5'
Success	Light device brightness is correct (Content 5 and Type is <class 'int'="">).</class>
Success	Virtual device color temperature is correct (Content 5 and Type is <class 'int'="">).</class>
Info	Changing light device color temperature to '5'
Success	Virtual device color temperature is correct (Content 8 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 8 and Type is <class 'int'="">).</class>
Info	Changing virtual device color temperature to '5'
Success	Light device brightness is correct (Content 5 and Type is <class 'int'="">).</class>
Info	Resetting precondition (Power off)

Testdetails

Info	Setting preconditions (Power on)
	Sending message with topic shellies/ffe/livingroom/main_light/relay/0 and payload on
	Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state": on", "brightness": 127.0, "color_temp": 352.0}
	Received message with topic shellies/ffe/livingroom/main_light/relay/0 and payload $_{\hookrightarrow}$ b'on'
	Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state": on", "brightness": 127.0, "color_temp": 352.0}'
	Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload \rightarrow b'{"state": "on"}'
	Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state": on", "brightness": 127.0, "color_temp": 352.0}
	Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload \rightarrow b'{"state": "on"}'
	Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state": on", "brightness": 127.0, "color_temp": 352.0}
	Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload b'{"state": "on"}'
	Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state": on", "brightness": 127.0, "color_temp": 352.0}
	Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload b'{"state": "on"}'
	Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state": on", "brightness": 127.0, "color_temp": 352.0}
	Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload b'{"state": "on"}'
	Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state": on", "brightness": 127.0, "color_temp": 352.0}
	Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload b'{"state": "on"}'
	Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":

```
Received message with topic videv/ffe/livingroom/main_light/state and payload b'true'
       Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       _{\hookrightarrow} "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
          "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
           "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
           "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'true'
Success
          Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).
       Result (Virtual device color temperature): 5 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 5 (<class 'int'>)
Info
      Changing light device color temperature to '5'
       Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 413.0}
       Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 413.0}'
       Received message with topic videv/ffe/livingroom/main_light/color_temp and payload
       \hookrightarrow b'8'
Success
          Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
       Result (Virtual device color temperature): 8 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
Success
          Light device brightness is correct (Content 8 and Type is <class 'int'>).
       Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
Info
      Changing virtual device color temperature to '5'
       Sending message with topic videv/ffe/livingroom/main_light/color_temp/set and payload
       Received message with topic zigbee/ffe/livingroom/main_light/set and payload
       \rightarrow b'{"color_temp": 352}'
```

```
Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/main_light/color_temp and payload
       \hookrightarrow b'5'
Success
          Light device brightness is correct (Content 5 and Type is <class 'int'>).
       Result (Light device brightness): 5 (<class 'int'>)
       Expectation (Light device brightness): result = 5 (<class 'int'>)
Success
          Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).
       Result (Virtual device color temperature): 5 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 5 (<class 'int'>)
Info
      Changing light device color temperature to '5'
       Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 413.0}
       Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 413.0}'
       Received message with topic videv/ffe/livingroom/main_light/color_temp and payload

→ b'8'

          Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
Success
       Result (Virtual device color temperature): 8 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
Success
          Light device brightness is correct (Content 8 and Type is <class 'int'>).
       Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
Info
      Changing virtual device color temperature to '5'
       Sending message with topic videv/ffe/livingroom/main_light/color_temp/set and payload
       Received message with topic zigbee/ffe/livingroom/main_light/set and payload
       \rightarrow b'{"color_temp": 352}'
       Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state":
          "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
```

```
Received message with topic videv/ffe/livingroom/main_light/color_temp and payload

→ b'5'

Success
         Light device brightness is correct (Content 5 and Type is <class 'int'>).
      Result (Light device brightness): 5 (<class 'int'>)
      Expectation (Light device brightness): result = 5 (<class 'int'>)
Info
      Resetting precondition (Power off)
      Sending message with topic shellies/ffe/livingroom/main_light/relay/0 and payload off
      Received message with topic shellies/ffe/livingroom/main_light/relay/0 and payload
       \hookrightarrow b'off'
      Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload
       → b'{"state": "off"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
       \rightarrow b'{"state": "off"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
       \hookrightarrow "off", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload
       → b'{"state": "off"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload
       → b'{"state": "off"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload
       → b'{"state": "off"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
       \rightarrow b'{"state": "off"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic videv/ffe/livingroom/main_light/state and payload b'false'
      Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
```

```
Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":

"off", "brightness": 127.0, "color_temp": 352.0}'

Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":

"off", "brightness": 127.0, "color_temp": 352.0}'

Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":

"off", "brightness": 127.0, "color_temp": 352.0}'

Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'false'
```

4.12 Power On/Off test for device and virtual device: shellies/ffe/livingroom/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:13:38,632 Finished-Time: 2023-02-15 07:13:39,843

Time-Consumption 1.211s

Testresults:

Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>

Testdetails

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

```
Result (Virtual device state): False (<class 'bool'>)

Expectation (Virtual device state): result = False (<class 'bool'>)
```

Info Changing switching device state to 'True'

```
Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state":
→ "on", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

    b'{"state": "on"}'

Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
→ "on", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
\rightarrow b'{"state": "on"}'
Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
→ "on", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload
→ b'{"state": "on"}'
Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
\rightarrow "on", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload
\rightarrow b'{"state": "on"}'
Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
→ "on", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload

    b'{"state": "on"}'

Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
→ "on", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
\rightarrow b'{"state": "on"}'
Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
→ "on", "brightness": 127.0, "color_temp": 352.0}
Received message with topic videv/ffe/livingroom/main_light/state and payload b'true'
Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
→ "on", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
\hookrightarrow "on", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
→ "on", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
→ "on", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
→ "on", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
→ "on", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'true'
```

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Result (Virtual device state): True (<class 'bool'>)

```
Expectation (Virtual device state): result = True (<class 'bool'>)
         Switching device state is correct (Content True and Type is <class 'bool'>).
Success
      Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
      Sending message with topic videv/ffe/livingroom/main_light/state/set and payload false
      Received message with topic shellies/ffe/livingroom/main_light/relay/0/command and

→ payload b'off'

      Sending message with topic shellies/ffe/livingroom/main_light/relay/0 and payload off
      Received message with topic shellies/ffe/livingroom/main_light/relay/0 and payload
       ⇔ b'off'
      Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

    b'{"state": "off"}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
       \rightarrow b'{"state": "off"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
       _{\hookrightarrow} "off", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload

    b'{"state": "off"}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload

    b'{"state": "off"}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload

    b'{"state": "off"}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
       \rightarrow b'{"state": "off"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic videv/ffe/livingroom/main_light/state and payload b'false'
      Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
```

```
Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'false'
Success
         Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
Success
         Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic shellies/ffe/livingroom/main_light/relay/0 and payload on
       Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic shellies/ffe/livingroom/main_light/relay/0 and payload
       ⇔ b'on'
       Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

    b'{"state": "on"}'

       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
       \hookrightarrow b'{"state": "on"}'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload
       → b'{"state": "on"}'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload
       \rightarrow b'{"state": "on"}'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
```

```
Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload

    b'{"state": "on"}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
       \hookrightarrow b'{"state": "on"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic videv/ffe/livingroom/main_light/state and payload b'true'
      Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
       Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":

¬ "on", "brightness": 127.0, "color_temp": 352.0}

      Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'true'
Success
         Virtual device state is correct (Content True and Type is <class 'bool'>).
      Result (Virtual device state): True (<class 'bool'>)
      Expectation (Virtual device state): result = True (<class 'bool'>)
Success
         Switching device state is correct (Content True and Type is <class 'bool'>).
      Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
      Sending message with topic videv/ffe/livingroom/main_light/state/set and payload false
      Received message with topic shellies/ffe/livingroom/main_light/relay/0/command and
       → payload b'off'
      Sending message with topic shellies/ffe/livingroom/main_light/relay/O and payload off
      Received message with topic shellies/ffe/livingroom/main_light/relay/0 and payload
       ⇔ b'off'
      Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload
       \rightarrow b'{"state": "off"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
```

```
Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload

    b'{"state": "off"}'

Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload
\rightarrow b'{"state": "off"}'
Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload
\rightarrow b'{"state": "off"}'
Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload

    b'{"state": "off"}'

Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
\rightarrow b'{"state": "off"}'
Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic videv/ffe/livingroom/main_light/state and payload b'false'
Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
\rightarrow "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'false'
```

```
Success Switching device state is correct (Content False and Type is <class 'bool'>).
```

```
Result (Switching device state): False (<class 'bool'>)

Expectation (Switching device state): result = False (<class 'bool'>)
```

4.13 Brightness synchronisation test: videv/ffe/livingroom/floorlamp

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/synchronisation.py (42)

Start-Time: 2023-02-15 07:13:39.844 Finished-Time: 2023-02-15 07:13:41,055

Time-Consumption 1.211s

Testresult	ts:
------------	-----

Info	Setting preconditions for master device 'True' (Power on)
Info	Changing master device brightness to '35'
Success	Follower device (zigbee/ffe/livingroom/floorlamp_1) brightness is correct (Content 35 and Type is <class 'int'="">).</class>
Success	Follower device (zigbee/ffe/livingroom/floorlamp_2) brightness is correct (Content 35 and Type
Success	is <class 'int'="">). Follower device (zigbee/ffe/livingroom/floorlamp_3) brightness is correct (Content 35 and Type is <class 'int'="">).</class></class>
Success	Follower device (zigbee/ffe/livingroom/floorlamp_4) brightness is correct (Content 35 and Type is <class 'int'="">).</class>
Success	Follower device (zigbee/ffe/livingroom/floorlamp_5) brightness is correct (Content 35 and Type is <class 'int'="">).</class>

Success Follower device (zigbee/ffe/livingroom/floorlamp_6) brightness is correct (Content 35 and Type

is <class 'int'>).

Info Changing master device brightness to '50'

Success Follower device (zigbee/ffe/livingroom/floorlamp_1) brightness is correct (Content 50 and Type

is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_2) brightness is correct (Content 50 and Type

is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_3) brightness is correct (Content 50 and Type

is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_4) brightness is correct (Content 50 and Type

is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_5) brightness is correct (Content 50 and Type

is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_6) brightness is correct (Content 50 and Type

is <class 'int'>).

Info Resetting preconditions for master device 'False' (Power off)

Testdetails

Info Setting preconditions for master device 'True' (Power on)

Sending message with topic shellies/ffe/livingroom/main_light/relay/0 and payload on

Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state":

"on", "brightness": 127.0, "color_temp": 352.0}

Received message with topic shellies/ffe/livingroom/main_light/relay/0 and payload

 \hookrightarrow b'on'

Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state":

→ "on", "brightness": 127.0, "color_temp": 352.0}'

Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

b'{"state": "on"}'

```
Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
       → b'{"state": "on"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload
       \rightarrow b'{"state": "on"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload
       \rightarrow b'{"state": "on"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload

    b'{"state": "on"}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
       \rightarrow b'{"state": "on"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic videv/ffe/livingroom/main_light/state and payload b'true'
      Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'true'
Info
      Changing master device brightness to '35'
      Sending message with topic videv/ffe/livingroom/floorlamp/brightness/set and payload
       \hookrightarrow 35
      Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

    b'{"brightness": 90}'
```

```
Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
      Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload

    b'{"brightness": 90}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
      Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload

    b'{"brightness": 90}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
      Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload

    b'{"brightness": 90}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
      → "on", "brightness": 90.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload

    b'{"brightness": 90}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
      → "on", "brightness": 90.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload

    b'{"brightness": 90}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
      → "on", "brightness": 90.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
      → "on", "brightness": 90.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
      → "on", "brightness": 90.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
      → "on", "brightness": 90.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
      → "on", "brightness": 90.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
      → "on", "brightness": 90.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
      Received message with topic videv/ffe/livingroom/floorlamp/brightness and payload
      \hookrightarrow b'35'
         Follower device (zigbee/ffe/livingroom/floorlamp_1) brightness is correct (Content 35 and Type is <class
Success
         'int'>).
      Result (Follower device (zigbee/ffe/livingroom/floorlamp_1) brightness): 35 (<class
      Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_1) brightness): result
```

 \Rightarrow = 35 (<class 'int'>)

```
Follower device (zigbee/ffe/livingroom/floorlamp_2) brightness is correct (Content 35 and Type is <class
Success
          'int'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_2) brightness): 35 (<class
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_2) brightness): result
       \rightarrow = 35 (<class 'int'>)
Success
          Follower device (zigbee/ffe/livingroom/floorlamp_3) brightness is correct (Content 35 and Type is <class
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_3) brightness): 35 (<class
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_3) brightness): result
       \rightarrow = 35 (<class 'int'>)
          Follower device (zigbee/ffe/livingroom/floorlamp_4) brightness is correct (Content 35 and Type is <class
Success
          'int'>)
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_4) brightness): 35 (<class
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_4) brightness): result
       \rightarrow = 35 (<class 'int'>)
Success
          Follower device (zigbee/ffe/livingroom/floorlamp_5) brightness is correct (Content 35 and Type is <class
          'int'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_5) brightness): 35 (<class
       → 'int'>)
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_5) brightness): result
        \rightarrow = 35 (<class 'int'>)
          Follower device (zigbee/ffe/livingroom/floorlamp_6) brightness is correct (Content 35 and Type is <class
Success
          'int'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_6) brightness): 35 (<class
        → 'int'>)
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_6) brightness): result
       \rightarrow = 35 (<class 'int'>)
Info
       Changing master device brightness to '50'
       Sending message with topic videv/ffe/livingroom/floorlamp/brightness/set and payload
       Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

    b'{"brightness": 128}'
```

```
Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload

    b'{"brightness": 128}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload

    b'{"brightness": 128}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload

    b'{"brightness": 128}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload
       → b'{"brightness": 128}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload

    b'{"brightness": 128}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       _{\hookrightarrow} "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
       \hookrightarrow "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic videv/ffe/livingroom/floorlamp/brightness and payload
       \hookrightarrow b'50'
         Follower device (zigbee/ffe/livingroom/floorlamp_1) brightness is correct (Content 50 and Type is <class
Success
         'int'>).
      Result (Follower device (zigbee/ffe/livingroom/floorlamp_1) brightness): 50 (<class
      Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_1) brightness): result
```

 \Rightarrow = 50 (<class 'int'>)

```
Success
          Follower device (zigbee/ffe/livingroom/floorlamp_2) brightness is correct (Content 50 and Type is <class
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_2) brightness): 50 (<class
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_2) brightness): result
        \hookrightarrow = 50 (<class 'int'>)
Success
          Follower device (zigbee/ffe/livingroom/floorlamp_3) brightness is correct (Content 50 and Type is <class
          'int'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_3) brightness): 50 (<class
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_3) brightness): result
        \Rightarrow = 50 (<class 'int'>)
Success
          Follower device (zigbee/ffe/livingroom/floorlamp_4) brightness is correct (Content 50 and Type is <class
          'int'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_4) brightness): 50 (<class

    'int'>)

       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_4) brightness): result
        \Rightarrow = 50 (<class 'int'>)
          Follower device (zigbee/ffe/livingroom/floorlamp_5) brightness is correct (Content 50 and Type is <class
Success
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_5) brightness): 50 (<class
            'int'>)
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_5) brightness): result
        \rightarrow = 50 (<class 'int'>)
Success
          Follower device (zigbee/ffe/livingroom/floorlamp_6) brightness is correct (Content 50 and Type is <class
          'int'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_6) brightness): 50 (<class
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_6) brightness): result
        \rightarrow = 50 (<class 'int'>)
Info
       Resetting preconditions for master device 'False' (Power off)
       Sending message with topic shellies/ffe/livingroom/main_light/relay/0 and payload off
       Received message with topic shellies/ffe/livingroom/main_light/relay/0 and payload
```

⇔ b'off'

```
Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

    b'{"state": "off"}'

Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
\rightarrow b'{"state": "off"}'
Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
\hookrightarrow "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload

    b'{"state": "off"}'

Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload
→ b'{"state": "off"}'
Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload
\rightarrow b'{"state": "off"}'
Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload

    b'{"state": "off"}'

Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic videv/ffe/livingroom/main_light/state and payload b'false'
Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":

    "off", "brightness": 127.0, "color_temp": 352.0}

Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":

    "off", "brightness": 127.0, "color_temp": 352.0}

Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
   "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'false'
```

4.14 Color temperature synchronisation test: videv/ffe/livingroom/floorlamp

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/synchronisation.py (67)

Start-Time: 2023-02-15 07:13:41,056 Finished-Time: 2023-02-15 07:13:42,266

Time-Consumption 1.210s

Testresul	lts:
restresu	ιιS.

Info	Setting preconditions for master device 'True' (Power on)
Info	Changing master device color temperature to '2'
Success	Follower device (righer/ffe/livingroom/fleerlamp 1) color temperature is correct (Content 2)

Success Follower device (zigbee/ffe/livingroom/floorlamp_1) color temperature is correct (Content 2

and Type is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_2) color temperature is correct (Content 2

and Type is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_3) color temperature is correct (Content 2

and Type is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_4) color temperature is correct (Content 2

and Type is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_5) color temperature is correct (Content 2

and Type is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_6) color temperature is correct (Content 2

and Type is <class 'int'>).

Info Changing master device color temperature to '5'

Success Follower device (zigbee/ffe/livingroom/floorlamp_1) color temperature is correct (Content 5

and Type is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_2) color temperature is correct (Content 5

and Type is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_3) color temperature is correct (Content 5

and Type is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_4) color temperature is correct (Content 5

and Type is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_5) color temperature is correct (Content 5

and Type is <class 'int'>).

Success Follower device (zigbee/ffe/livingroom/floorlamp_6) color temperature is correct (Content 5

and Type is <class 'int'>).

Info Resetting preconditions for master device 'False' (Power off)

Testdetails

Info Setting preconditions for master device 'True' (Power on)

Sending message with topic shellies/ffe/livingroom/main_light/relay/0 and payload on

Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state":

Received message with topic shellies/ffe/livingroom/main_light/relay/0 and payload

 \hookrightarrow b'on'

Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state":

→ "on", "brightness": 127.0, "color_temp": 352.0}'

Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

 \rightarrow b'{"state": "on"}'

```
Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload

    b'{"state": "on"}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload
       \rightarrow b'{"state": "on"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload

    b'{"state": "on"}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
       \rightarrow "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload
       \rightarrow b'{"state": "on"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
       \rightarrow b'{"state": "on"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
       \rightarrow "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic videv/ffe/livingroom/main_light/state and payload b'true'
      Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
       \hookrightarrow "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'true'
Info
      Changing master device color temperature to '2'
      Sending message with topic videv/ffe/livingroom/floorlamp/color_temp/set and payload 2
      Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

    b'{"color_temp": 291}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 291.0}
```

```
Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload

    b'{"color_temp": 291}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 291.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload
       \rightarrow b'{"color_temp": 291}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 291.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload
       \rightarrow b'{"color_temp": 291}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 291.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload

    b'{"color_temp": 291}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
       \rightarrow "on", "brightness": 127.0, "color_temp": 291.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload

    b'{"color_temp": 291}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
       \rightarrow "on", "brightness": 127.0, "color_temp": 291.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 291.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 291.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 291.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 291.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 291.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 291.0}'
      Received message with topic videv/ffe/livingroom/floorlamp/color_temp and payload b'2'
Success
         Follower device (zigbee/ffe/livingroom/floorlamp_1) color temperature is correct (Content 2 and Type is
          <class 'int'>).
      Result (Follower device (zigbee/ffe/livingroom/floorlamp_1) color temperature): 2
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_1) color temperature):

    result = 2 (<class 'int'>)

Success
         Follower device (zigbee/ffe/livingroom/floorlamp_2) color temperature is correct (Content 2 and Type is
          <class 'int'>).
```

Result (Follower device (zigbee/ffe/livingroom/floorlamp_2) color temperature): 2

```
Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_2) color temperature):

    result = 2 (<class 'int'>)

         Follower device (zigbee/ffe/livingroom/floorlamp_3) color temperature is correct (Content 2 and Type is
Success
          <class 'int'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_3) color temperature): 2
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_3) color temperature):

    result = 2 (<class 'int'>)

         Follower device (zigbee/ffe/livingroom/floorlamp_4) color temperature is correct (Content 2 and Type is
Success
          <class 'int'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_4) color temperature): 2
           (<class 'int'>)
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_4) color temperature):

    result = 2 (<class 'int'>)

Success
          Follower device (zigbee/ffe/livingroom/floorlamp_5) color temperature is correct (Content 2 and Type is
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_5) color temperature): 2
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_5) color temperature):
       → result = 2 (<class 'int'>)
Success
         Follower device (zigbee/ffe/livingroom/floorlamp_6) color temperature is correct (Content 2 and Type is
          <class 'int'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_6) color temperature): 2
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_6) color temperature):

    result = 2 (<class 'int'>)

Info
      Changing master device color temperature to '5'
       Sending message with topic videv/ffe/livingroom/floorlamp/color_temp/set and payload 5
       Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload
       \rightarrow b'{"color_temp": 352}'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
       \rightarrow b'{"color_temp": 352}'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
```

```
Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload

    b'{"color_temp": 352}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload
       \rightarrow b'{"color_temp": 352}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload
       \rightarrow b'{"color_temp": 352}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
       \rightarrow b'{"color_temp": 352}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
       \hookrightarrow "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
       Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic videv/ffe/livingroom/floorlamp/color_temp and payload b'5'
Success
         Follower device (zigbee/ffe/livingroom/floorlamp_1) color temperature is correct (Content 5 and Type is
         <class 'int'>).
      Result (Follower device (zigbee/ffe/livingroom/floorlamp_1) color temperature): 5
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_1) color temperature):

    result = 5 (<class 'int'>)

Success
         Follower device (zigbee/ffe/livingroom/floorlamp_2) color temperature is correct (Content 5 and Type is
         <class 'int'>).
      Result (Follower device (zigbee/ffe/livingroom/floorlamp_2) color temperature): 5
          (<class 'int'>)
      Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_2) color temperature):

    result = 5 (<class 'int'>)
```

```
Follower device (zigbee/ffe/livingroom/floorlamp_3) color temperature is correct (Content 5 and Type is
Success
          <class 'int'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_3) color temperature): 5
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_3) color temperature):

→ result = 5 (<class 'int'>)

         Follower device (zigbee/ffe/livingroom/floorlamp_4) color temperature is correct (Content 5 and Type is
Success
          <class 'int'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_4) color temperature): 5
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_4) color temperature):

    result = 5 (<class 'int'>)

Success
         Follower device (zigbee/ffe/livingroom/floorlamp_5) color temperature is correct (Content 5 and Type is
          <class 'int'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_5) color temperature): 5
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_5) color temperature):
       → result = 5 (<class 'int'>)
Success
         Follower device (zigbee/ffe/livingroom/floorlamp_6) color temperature is correct (Content 5 and Type is
          <class 'int'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_6) color temperature): 5
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_6) color temperature):

    result = 5 (<class 'int'>)

Info
      Resetting preconditions for master device 'False' (Power off)
       Sending message with topic shellies/ffe/livingroom/main_light/relay/O and payload off
       Received message with topic shellies/ffe/livingroom/main_light/relay/0 and payload
       Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload
       \rightarrow b'{"state": "off"}'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
          "off", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
       → b'{"state": "off"}'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
```

```
Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload

    b'{"state": "off"}'

Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload

    b'{"state": "off"}'

Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload
\rightarrow b'{"state": "off"}'
Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
\rightarrow b'{"state": "off"}'
Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
   "off", "brightness": 127.0, "color_temp": 352.0}
Received message with topic videv/ffe/livingroom/main_light/state and payload b'false'
Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":

    "off", "brightness": 127.0, "color_temp": 352.0}

Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
→ "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":

    "off", "brightness": 127.0, "color_temp": 352.0}

Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
   "off", "brightness": 127.0, "color_temp": 352.0}'
Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":

    "off", "brightness": 127.0, "color_temp": 352.0}

Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'false'
```

4.15 Power On/Off synchronisation test: shellies/ffe/livingroom/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/synchronisation.py (24)

Start-Time: 2023-02-15 07:13:42,267 Finished-Time: 2023-02-15 07:13:43,177

Time-Consumption 0.910s

Testresults:

Info Setting preconditions for master device 'False'
Info Changing master device state to 'True'

Success	Follower device (zigbee/ffe/livingroom/floorlamp_1) state is correct (Content True and Type is
	<pre><class 'bool'="">).</class></pre>
Success	Follower device (zigbee/ffe/livingroom/floorlamp_2) state is correct (Content True and Type is
	<class 'bool'="">).</class>
Success	Follower device (zigbee/ffe/livingroom/floorlamp_3) state is correct (Content True and Type is
	<class 'bool'="">).</class>
Success	Follower device (zigbee/ffe/livingroom/floorlamp_4) state is correct (Content True and Type is
	<class 'bool'="">).</class>
Success	Follower device (zigbee/ffe/livingroom/floorlamp_5) state is correct (Content True and Type is
	<class 'bool'="">).</class>
Success	Follower device (zigbee/ffe/livingroom/floorlamp_6) state is correct (Content True and Type is
	<class 'bool'="">).</class>
Info	Changing master device state to 'False'
Success	Follower device (zigbee/ffe/livingroom/floorlamp_1) state is correct (Content False and Type
	is <class 'bool'="">).</class>
Success	Follower device (zigbee/ffe/livingroom/floorlamp_2) state is correct (Content False and Type
	is <class 'bool'="">).</class>
Success	Follower device (zigbee/ffe/livingroom/floorlamp_3) state is correct (Content False and Type
	is <class 'bool'="">).</class>
Success	Follower device (zigbee/ffe/livingroom/floorlamp_4) state is correct (Content False and Type
	is <class 'bool'="">).</class>
Success	Follower device (zigbee/ffe/livingroom/floorlamp_5) state is correct (Content False and Type
Juccess	is <class 'bool'="">).</class>
Success	Follower device (zigbee/ffe/livingroom/floorlamp_6) state is correct (Content False and Type
Juccess	
	is <class 'bool'="">).</class>

Testdetails

|--|

Info	Changing master device state to 'True'
	Sending message with topic shellies/ffe/livingroom/main_light/relay/0 and payload on
	Sending message with topic zigbee/ffe/livingroom/main_light and payload {"state": on", "brightness": 127.0, "color_temp": 352.0}
	Received message with topic shellies/ffe/livingroom/main_light/relay/0 and payload \rightarrow b'on'
	Received message with topic zigbee/ffe/livingroom/main_light and payload b'{"state": on", "brightness": 127.0, "color_temp": 352.0}'
	Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload \rightarrow b'{"state": "on"}'
	Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state": on", "brightness": 127.0, "color_temp": 352.0}
	Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload \rightarrow b'{"state": "on"}'
	Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":

→ "on", "brightness": 127.0, "color_temp": 352.0}

```
Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload

    b'{"state": "on"}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload

    b'{"state": "on"}'

      Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload
       \rightarrow b'{"state": "on"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
       \rightarrow b'{"state": "on"}'
      Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
       _{\hookrightarrow} "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic videv/ffe/livingroom/main_light/state and payload b'true'
      Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":
           "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'true'
Success
         Follower device (zigbee/ffe/livingroom/floorlamp_1) state is correct (Content True and Type is <class
         'bool'>).
      Result (Follower device (zigbee/ffe/livingroom/floorlamp_1) state): True (<class
          'bool'>)
      Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_1) state): result =

¬ True (<class 'bool'>)

         Follower device (zigbee/ffe/livingroom/floorlamp_2) state is correct (Content True and Type is <class
Success
         'bool'>).
      Result (Follower device (zigbee/ffe/livingroom/floorlamp_2) state): True (<class
       → 'bool'>)
```

```
Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_2) state): result =

    True (<class 'bool'>)

         Follower device (zigbee/ffe/livingroom/floorlamp_3) state is correct (Content True and Type is <class
Success
          'bool'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_3) state): True (<class
       → 'bool'>)
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_3) state): result =
       Follower device (zigbee/ffe/livingroom/floorlamp_4) state is correct (Content True and Type is <class
Success
          'bool'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_4) state): True (<class
           'bool'>)
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_4) state): result =
          True (<class 'bool'>)
Success
          Follower device (zigbee/ffe/livingroom/floorlamp_5) state is correct (Content True and Type is <class
          'bool'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_5) state): True (<class
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_5) state): result =

    True (<class 'bool'>)

Success
         Follower device (zigbee/ffe/livingroom/floorlamp_6) state is correct (Content True and Type is <class
          'bool'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_6) state): True (<class
       → 'bool'>)
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_6) state): result =

    True (<class 'bool'>)

Info
      Changing master device state to 'False'
       Sending message with topic shellies/ffe/livingroom/main_light/relay/0 and payload off
       Received message with topic shellies/ffe/livingroom/main_light/relay/0 and payload
       ⇔ b'off'
       Received message with topic zigbee/ffe/livingroom/floorlamp_1/set and payload

    b'{"state": "off"}'

       Sending message with topic zigbee/ffe/livingroom/floorlamp_1 and payload {"state":
           "off", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_2/set and payload
       → b'{"state": "off"}'
```

```
Sending message with topic zigbee/ffe/livingroom/floorlamp_2 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_3/set and payload

    b'{"state": "off"}'

       Sending message with topic zigbee/ffe/livingroom/floorlamp_3 and payload {"state":
       _{\hookrightarrow} "off", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_4/set and payload
       \rightarrow b'{"state": "off"}'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_4 and payload {"state":
       \hookrightarrow "off", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_5/set and payload

    b'{"state": "off"}'

       Sending message with topic zigbee/ffe/livingroom/floorlamp_5 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/livingroom/floorlamp_6/set and payload
       \rightarrow b'{"state": "off"}'
       Sending message with topic zigbee/ffe/livingroom/floorlamp_6 and payload {"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic videv/ffe/livingroom/main_light/state and payload b'false'
       Received message with topic zigbee/ffe/livingroom/floorlamp_1 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_2 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_3 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/ffe/livingroom/floorlamp_4 and payload b'{"state":

    "off", "brightness": 127.0, "color_temp": 352.0}

       Received message with topic zigbee/ffe/livingroom/floorlamp_5 and payload b'{"state":

    "off", "brightness": 127.0, "color_temp": 352.0}

       Received message with topic zigbee/ffe/livingroom/floorlamp_6 and payload b'{"state":
       → "off", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/livingroom/floorlamp/state and payload b'false'
         Follower device (zigbee/ffe/livingroom/floorlamp_1) state is correct (Content False and Type is <class
Success
          'bool'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_1) state): False (<class
       → 'bool'>)
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_1) state): result =
       → False (<class 'bool'>)
          Follower device (zigbee/ffe/livingroom/floorlamp_2) state is correct (Content False and Type is <class
Success
```

Result (Follower device (zigbee/ffe/livingroom/floorlamp_2) state): False (<class

→ 'bool'>)

```
Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_2) state): result =
       → False (<class 'bool'>)
          Follower device (zigbee/ffe/livingroom/floorlamp_3) state is correct (Content False and Type is <class
Success
          'bool'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_3) state): False (<class
       → 'bool'>)
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_3) state): result =

    False (<class 'bool'>)

Success
          Follower device (zigbee/ffe/livingroom/floorlamp_4) state is correct (Content False and Type is <class
          'bool'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_4) state): False (<class
           'bool'>)
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_4) state): result =
           False (<class 'bool'>)
Success
          Follower device (zigbee/ffe/livingroom/floorlamp_5) state is correct (Content False and Type is <class
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_5) state): False (<class
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_5) state): result =
       → False (<class 'bool'>)
Success
          Follower device (zigbee/ffe/livingroom/floorlamp_6) state is correct (Content False and Type is <class
          'bool'>).
       Result (Follower device (zigbee/ffe/livingroom/floorlamp_6) state): False (<class
       → 'bool'>)
       Expectation (Follower device (zigbee/ffe/livingroom/floorlamp_6) state): result =
       → False (<class 'bool'>)
```

4.16 Brightness test for device and virtual device: zigbee/ffe/sleep/bed_light_di

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (50)

Start-Time: 2023-02-15 07:13:43,177 Finished-Time: 2023-02-15 07:13:44,990

Time-Consumption 1.812s

Testresults:

Info Setting preconditions (Power on)

Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Changing light device brightness to '65'
Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Info	Changing virtual device brightness to '50'
Success	Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Changing light device brightness to '65'
Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Info	Changing virtual device brightness to '50'
Success	Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Resetting precondition (Power off)
Testdetails Info Setting pr	reconditions (Power on)
	message with topic zigbee/ffe/sleep/bed_light_di and payload {"state": "on", ightness": 127.0}
	d message with topic zigbee/ffe/sleep/bed_light_di and payload b'{"state": ", "brightness": 127.0}'
Received	d message with topic videv/ffe/sleep/bed_light_di/state and payload b'true'
Received	d message with topic videv/ffe/sleep/bed_light_di/brightness and payload b'50'
Success Virtua	al device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Result	(Virtual device brightness): 50 (<class 'int'="">)</class>
Expectat	tion (Virtual device brightness): result = 50 (<class 'int'="">)</class>
•	<u> </u>
Info Changing	light device brightness to '65'
	message with topic zigbee/ffe/sleep/bed_light_di and payload {"state": "on", ightness": 165.0}
	d message with topic zigbee/ffe/sleep/bed_light_di and payload b'{"state": ", "brightness": 165.0}'
Received	d message with topic videv/ffe/sleep/bed_light_di/brightness and payload b'65'
Success Virtua	al device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Result	(Virtual device brightness): 65 (<class 'int'="">)</class>
Expecta	tion (Virtual device brightness): result = 65 (<class 'int'="">)</class>
Success Light	device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Result	(Light device brightness): 65 (<class 'int'="">)</class>
Expectat	tion (Light device brightness): result = 65 (<class 'int'="">)</class>

```
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/ffe/sleep/bed_light_di/brightness/set and payload 50
       Received message with topic zigbee/ffe/sleep/bed_light_di/set and payload
       → b'{"brightness": 128}'
       Sending message with topic zigbee/ffe/sleep/bed_light_di and payload {"state": "on",
       → "brightness": 127.0}
       Received message with topic zigbee/ffe/sleep/bed_light_di and payload b'{"state":
       → "on", "brightness": 127.0}'
       Received message with topic videv/ffe/sleep/bed_light_di/brightness and payload b'50'
Success
          Light device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Light device brightness): 50 (<class 'int'>)
       Expectation (Light device brightness): result = 50 (<class 'int'>)
Success
          Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Virtual device brightness): 50 (<class 'int'>)
       Expectation (Virtual device brightness): result = 50 (<class 'int'>)
      Changing light device brightness to '65'
Info
       Sending message with topic zigbee/ffe/sleep/bed_light_di and payload {"state": "on",
       → "brightness": 165.0}
       Received message with topic zigbee/ffe/sleep/bed_light_di and payload b'{"state":
       → "on", "brightness": 165.0}'
       Received message with topic videv/ffe/sleep/bed_light_di/brightness and payload b'65'
Success
          Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
Success
          Light device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/ffe/sleep/bed_light_di/brightness/set and payload 50
       Received message with topic zigbee/ffe/sleep/bed_light_di/set and payload

    b'{"brightness": 128}'
```

```
Sending message with topic zigbee/ffe/sleep/bed_light_di and payload {"state": "on",
          "brightness": 127.0}
      Received message with topic zigbee/ffe/sleep/bed_light_di and payload b'{"state":
       → "on", "brightness": 127.0}'
      Received message with topic videv/ffe/sleep/bed_light_di/brightness and payload b'50'
         Light device brightness is correct (Content 50 and Type is <class 'int'>).
Success
      Result (Light device brightness): 50 (<class 'int'>)
      Expectation (Light device brightness): result = 50 (<class 'int'>)
      Resetting precondition (Power off)
Info
      Sending message with topic zigbee/ffe/sleep/bed_light_di and payload {"state": "off",
       Received message with topic zigbee/ffe/sleep/bed_light_di and payload b'{"state":
       → "off", "brightness": 127.0}'
      Received message with topic videv/ffe/sleep/bed_light_di/state and payload b'false'
```

4.17 Power On/Off test for device and virtual device: zigbee/ffe/sleep/bed_light_di

Testsummary

This test was passed with the state: Success.

 Caller:
 /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

 Start-Time:
 2023-02-15 07:13:44,990

 Finished-Time:
 2023-02-15 07:13:46,199

Time-Consumption 1.209s

Time-Consumption	1.2095
Testresults:	
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>

Switching device state is correct (Content False and Type is <class 'bool'>).

Testdetails

Success

Info

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Changing virtual device state to 'False'

```
Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic zigbee/ffe/sleep/bed_light_di and payload {"state": "on",

    "brightness": 127.0}

       Received message with topic zigbee/ffe/sleep/bed_light_di and payload b'{"state":
       → "on", "brightness": 127.0}'
       Received message with topic videv/ffe/sleep/bed_light_di/state and payload b'true'
Success
          Virtual device state is correct (Content True and Type is <class 'bool'>).
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
          Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/ffe/sleep/bed_light_di/state/set and payload false
       Received message with topic zigbee/ffe/sleep/bed_light_di/set and payload b'{"state":

    "off"}'

       Sending message with topic zigbee/ffe/sleep/bed_light_di and payload {"state": "off",
       → "brightness": 127.0}
       Received message with topic zigbee/ffe/sleep/bed_light_di and payload b'{"state":
       → "off", "brightness": 127.0}'
       Received message with topic videv/ffe/sleep/bed_light_di/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
          Virtual device state is correct (Content False and Type is <class 'bool'>).
Success
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic zigbee/ffe/sleep/bed_light_di and payload {"state": "on",
       → "brightness": 127.0}
```

```
Received message with topic zigbee/ffe/sleep/bed_light_di and payload b'{"state":

    "on", "brightness": 127.0}'

       Received message with topic videv/ffe/sleep/bed_light_di/state and payload b'true'
Success
          Virtual device state is correct (Content True and Type is <class 'bool'>).
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
          Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/ffe/sleep/bed_light_di/state/set and payload false
       Received message with topic zigbee/ffe/sleep/bed_light_di/set and payload b'{"state":
       Sending message with topic zigbee/ffe/sleep/bed_light_di and payload {"state": "off",
          "brightness": 127.0}
       Received message with topic zigbee/ffe/sleep/bed_light_di and payload b'{"state":
           "off", "brightness": 127.0}'
       Received message with topic videv/ffe/sleep/bed_light_di/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
```

4.18 Power On/Off test for device and virtual device: zigbee/ffe/sleep/bed_light_ma

Testsummary

This test was passed with the state: Success.

1.210s

Caller:	/home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)
Start-Time:	2023-02-15 07:13:46,200
Finished-Time:	2023-02-15 07:13:47,410

Time-Consumption

Testresults:	
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'

Succe	
Succe	,
Info	Changing switching device state to 'True'
Succe	(
Succe	5 6 (),
Info	Changing virtual device state to 'False'
Succe	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Testdet	tails
Succe	SS Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
	Result (Virtual device state): False (<class 'bool'="">)</class>
	<pre>Expectation (Virtual device state): result = False (<class 'bool'="">)</class></pre>
Info ———	Changing switching device state to 'True'
	Sending message with topic zigbee/ffe/sleep/bed_light_ma and payload {"state": "on"}
	Received message with topic zigbee/ffe/sleep/bed_light_ma and payload b'{"state": $_{\hookrightarrow}$ "on"}'
	Received message with topic videv/ffe/sleep/bed_light_ma/state and payload b'true'
Succe	SS Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
	Result (Virtual device state): True (<class 'bool'="">)</class>
	<pre>Expectation (Virtual device state): result = True (<class 'bool'="">)</class></pre>
Succe	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
	Result (Switching device state): True (<class 'bool'="">)</class>
	<pre>Expectation (Switching device state): result = True (<class 'bool'="">)</class></pre>
Info	Changing virtual device state to 'False'
	Sending message with topic videv/ffe/sleep/bed_light_ma/state/set and payload false
	Received message with topic zigbee/ffe/sleep/bed_light_ma/set and payload b'{"state": \hookrightarrow "off"}'
	Sending message with topic zigbee/ffe/sleep/bed_light_ma and payload {"state": "off"}
	Received message with topic zigbee/ffe/sleep/bed_light_ma and payload b'{"state": $_{\hookrightarrow}$ "off"}'
	Received message with topic videv/ffe/sleep/bed_light_ma/state and payload b'false'
Succe	ss Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
	2

Result (Switching device state): False (<class 'bool'>)

Expectation (Switching device state): result = False (<class 'bool'>)

```
Success
          Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic zigbee/ffe/sleep/bed_light_ma and payload {"state": "on"}
       Received message with topic zigbee/ffe/sleep/bed_light_ma and payload b'{"state":
       → "on"}'
       Received message with topic videv/ffe/sleep/bed_light_ma/state and payload b'true'
Success
          Virtual device state is correct (Content True and Type is <class 'bool'>).
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
          Switching device state is correct (Content True and Type is <class 'bool'>).
Success
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/ffe/sleep/bed_light_ma/state/set and payload false
       Received message with topic zigbee/ffe/sleep/bed_light_ma/set and payload b'{"state":
           "off"}'
       Sending message with topic zigbee/ffe/sleep/bed_light_ma and payload {"state": "off"}
       Received message with topic zigbee/ffe/sleep/bed_light_ma and payload b'{"state":
       \hookrightarrow "off"}'
       Received message with topic videv/ffe/sleep/bed_light_ma/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
```

4.19 Away mode test: zigbee/ffe/sleep/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (101)

Start-Time: 2023-02-15 07:13:47,411 Finished-Time: 2023-02-15 07:13:48,318

Time-Consumption 0.908s

Testresults:

Info Setting preconditions (Default setpoint)

Success Away mode is correct (Content False and Type is <class 'bool'>).

Info Activating away mode

Success Away mode is correct (Content True and Type is <class 'bool'>).

Success Temperature setpoint is correct (Content 16.5 and Type is <class 'float'>).

Info Deactivating away mode

Success Away mode is correct (Content False and Type is <class 'bool'>).

Success Temperature setpoint is correct (Content 21.5 and Type is <class 'float'>).

Testdetails

Info Setting preconditions (Default setpoint)

Sending message with topic videv/ffe/sleep/heating_valve/set_default_temperature/set

 \hookrightarrow and payload null

 ${\tt Received\ message\ with\ topic\ videv/ffe/sleep/heating_valve/user_temperature_setpoint}$

 $_{\hookrightarrow}$ and payload b'21.5'

Received message with topic zigbee/ffe/sleep/heating_valve/set and payload

b'{"current_heating_setpoint": 21.5}'

Sending message with topic zigbee/ffe/sleep/heating_valve and payload

→ {"current_heating_setpoint": 21.5, "local_temperature": 20.7, "battery": 97}

Received message with topic videv/ffe/sleep/heating_valve/valve_temperature_setpoint

 \hookrightarrow and payload b'21.5'

Received message with topic zigbee/ffe/sleep/heating_valve and payload

→ b'{"current_heating_setpoint": 21.5, "local_temperature": 20.7, "battery": 97}'

Success Away mode is correct (Content False and Type is <class 'bool'>).

```
Result (Away mode): False (<class 'bool'>)
```

Expectation (Away mode): result = False (<class 'bool'>)

Info Activating away mode

Sending message with topic videv/ffe/sleep/heating_valve/away_mode/set and payload

true

Received message with topic zigbee/ffe/sleep/heating_valve/set and payload

b'{"current_heating_setpoint": 16.5}'

Sending message with topic zigbee/ffe/sleep/heating_valve and payload

 $_{\rightarrow}$ {"current_heating_setpoint": 16.5, "local_temperature": 20.7, "battery": 97}

Received message with topic videv/ffe/sleep/heating_valve/valve_temperature_setpoint

 \rightarrow and payload b'16.5'

```
Received message with topic videv/ffe/sleep/heating_valve/away_mode and payload
       ⇔ b'true'
       Received message with topic zigbee/ffe/sleep/heating_valve and payload
       → b'{"current_heating_setpoint": 16.5, "local_temperature": 20.7, "battery": 97}'
Success
         Away mode is correct (Content True and Type is <class 'bool'>).
       Result (Away mode): True (<class 'bool'>)
       Expectation (Away mode): result = True (<class 'bool'>)
          Temperature setpoint is correct (Content 16.5 and Type is <class 'float'>).
Success
       Result (Temperature setpoint): 16.5 (<class 'float'>)
       Expectation (Temperature setpoint): result = 16.5 (<class 'float'>)
Info
      Deactivating away mode
       Sending message with topic videv/ffe/sleep/heating_valve/away_mode/set and payload
       Received message with topic zigbee/ffe/sleep/heating_valve/set and payload
       → b'{"current_heating_setpoint": 21.5}'
       Sending message with topic zigbee/ffe/sleep/heating_valve and payload
       → {"current_heating_setpoint": 21.5, "local_temperature": 20.7, "battery": 97}
       Received message with topic videv/ffe/sleep/heating_valve/valve_temperature_setpoint
       \hookrightarrow and payload b'21.5'
       Received message with topic videv/ffe/sleep/heating_valve/away_mode and payload
       ⇔ b'false'
       Received message with topic zigbee/ffe/sleep/heating_valve and payload
       → b'{"current_heating_setpoint": 21.5, "local_temperature": 20.7, "battery": 97}'
Success
          Away mode is correct (Content False and Type is <class 'bool'>).
       Result (Away mode): False (<class 'bool'>)
       Expectation (Away mode): result = False (<class 'bool'>)
          Temperature setpoint is correct (Content 21.5 and Type is <class 'float'>).
Success
       Result (Temperature setpoint): 21.5 (<class 'float'>)
       Expectation (Temperature setpoint): result = 21.5 (<class 'float'>)
```

4.20 Boost mode test: zigbee/ffe/sleep/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (128)

Start-Time: 2023-02-15 07:13:48,319 Finished-Time: 2023-02-15 07:13:49,225

Time-Consumption 0.906s

Testresults:

Info Setting preconditions (Default setpoint)

Success Boost timer is correct (Content 0 and Type is <class 'int'>).

Info Activating boost mode

Success Boost timer is greater expectation (Content 900 and Type is <class 'int'>).

Info Setting postconditions (Default setpoint)

Success Boost timer is correct (Content 0 and Type is <class 'int'>).

Testdetails

Info Setting preconditions (Default setpoint)

Sending message with topic videv/ffe/sleep/heating_valve/set_default_temperature/set \rightarrow and payload null

Success Boost timer is correct (Content 0 and Type is <class 'int'>).

Result (Boost timer): 0 (<class 'int'>)

Expectation (Boost timer): result = 0 (<class 'int'>)

Info Activating boost mode

Sending message with topic videv/ffe/sleep/heating_valve/start_boost/set and payload \rightarrow true

Received message with topic videv/ffe/sleep/heating_valve/boost_timer and payload b'900'

Received message with topic zigbee/ffe/sleep/heating_valve/set and payload b'{"current_heating_setpoint": 30}'

Sending message with topic zigbee/ffe/sleep/heating_valve and payload

→ {"current_heating_setpoint": 30, "local_temperature": 20.7, "battery": 97}

Received message with topic videv/ffe/sleep/heating_valve/valve_temperature_setpoint and payload b'30'

Received message with topic zigbee/ffe/sleep/heating_valve and payload

b'{"current_heating_setpoint": 30, "local_temperature": 20.7, "battery": 97}'

Success Boost timer is greater expectation (Content 900 and Type is <class 'int'>).

Result (Boost timer): 900 (<class 'int'>)

Expectation (Boost timer): result > 0 (<class 'int'>)

Info	Setting postconditions (Default setpoint)
	Sending message with topic videv/ffe/sleep/heating_valve/set_default_temperature/set
	\hookrightarrow and payload true
	Received message with topic videv/ffe/sleep/heating_valve/boost_timer and payload b'0'
	Received message with topic zigbee/ffe/sleep/heating_valve/set and payload
	<pre> b'{"current_heating_setpoint": 21.5}' </pre>
	Sending message with topic zigbee/ffe/sleep/heating_valve and payload
	→ {"current_heating_setpoint": 21.5, "local_temperature": 20.7, "battery": 97}
	Received message with topic videv/ffe/sleep/heating_valve/valve_temperature_setpoint
	→ and payload b'21.5'
	Received message with topic zigbee/ffe/sleep/heating_valve and payload

Success Boost timer is correct (Content 0 and Type is <class 'int'>).

```
Result (Boost timer): 0 (<class 'int'>)
Expectation (Boost timer): result = 0 (<class 'int'>)
```

4.21 Default temperature test for device and virtual device: zigbee/ffe/sleep/heating_valve

Testsummary

This test was passed with the state: Success.

Caller:	/home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (50)
Start-Time:	2023-02-15 07:13:49,225
Finished-Time:	2023-02-15 07:13:49,830

Time-Consumption 0.604s

Tastuss	
Testres	uits:

Info	Setting preconditions (Valve setpoint to 16.5)
Success	Valve temperature setpoint (is not default temperature) is correct (Content True and Type is
	<class 'bool'="">).</class>
Info	Triggering set to default temperature (21.5)
Success	Valve temperature setpoint is correct (Content 21.5 and Type is <class 'float'="">).</class>

Testdetails

Info Setting preconditions (Valve setpoint to 16.5)

```
Received message with topic zigbee/ffe/sleep/heating_valve/set and payload
       → b'{"current_heating_setpoint": 16.5}'
       Received message with topic videv/ffe/sleep/heating_valve/valve_temperature_setpoint
       \rightarrow and payload b'16.5'
       Received message with topic videv/ffe/sleep/heating_valve/user_temperature_setpoint
       \rightarrow and payload b'16.5'
Success
          Valve temperature setpoint (is not default temperature) is correct (Content True and Type is <class
          'bool'>).
       Result (Valve temperature setpoint (is not default temperature)): True (<class
       → 'bool'>)
       Expectation (Valve temperature setpoint (is not default temperature)): result = True
       Info
      Triggering set to default temperature (21.5)
       Sending message with topic videv/ffe/sleep/heating_valve/set_default_temperature/set
       \hookrightarrow and payload null
       Received message with topic videv/ffe/sleep/heating_valve/user_temperature_setpoint
       \hookrightarrow and payload b'21.5'
       Received message with topic zigbee/ffe/sleep/heating_valve/set and payload
       → b'{"current_heating_setpoint": 21.5}'
       Sending message with topic zigbee/ffe/sleep/heating_valve and payload
          {"current_heating_setpoint": 21.5, "local_temperature": 20.7, "battery": 97}
       Received message with topic videv/ffe/sleep/heating_valve/valve_temperature_setpoint
       \hookrightarrow and payload b'21.5'
       Received message with topic zigbee/ffe/sleep/heating_valve and payload
       → b'{"current_heating_setpoint": 21.5, "local_temperature": 20.7, "battery": 97}'
Success
          Valve temperature setpoint is correct (Content 21.5 and Type is <class 'float'>).
       Result (Valve temperature setpoint): 21.5 (<class 'float'>)
       Expectation (Valve temperature setpoint): result = 21.5 (<class 'float'>)
```

4.22 Summer mode test: zigbee/ffe/sleep/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (74)

Start-Time: 2023-02-15 07:13:49,830 Finished-Time: 2023-02-15 07:13:50,738

Time-Consumption 0.908s

Testresults:

Info	Setting preconditions (Default setpoint)
Success	Summer mode is correct (Content False and Type is <class 'bool'="">).</class>
Info	Activating summer mode
Success	Summer mode is correct (Content True and Type is <class 'bool'="">).</class>
Success	Temperature setpoint is correct (Content 5 and Type is <class 'int'="">).</class>
Info	Deactivating summer mode
Success	Summer mode is correct (Content False and Type is <class 'bool'="">).</class>
Success	Temperature setpoint is correct (Content 21.5 and Type is <class 'float'="">).</class>

Testdetails

Info Setting preconditions (Default setpoint)

Sending message with topic videv/ffe/sleep/heating_valve/set_default_temperature/set \rightarrow and payload null

Success Summer mode is correct (Content False and Type is <class 'bool'>).

```
Result (Summer mode): False (<class 'bool'>)

Expectation (Summer mode): result = False (<class 'bool'>)
```

Info Activating summer mode

Sending message with topic videv/ffe/sleep/heating_valve/summer_mode/set and payload true

Received message with topic zigbee/ffe/sleep/heating_valve/set and payload b'{"current_heating_setpoint": 5}'

Received message with topic videv/ffe/sleep/heating_valve/valve_temperature_setpoint $_{\hookrightarrow}$ and payload b'5'

Received message with topic videv/ffe/sleep/heating_valve/summer_mode and payload \rightarrow b'true'

Received message with topic zigbee/ffe/sleep/heating_valve and payload

b'{"current_heating_setpoint": 5, "local_temperature": 20.7, "battery": 97}'

Success Summer mode is correct (Content True and Type is <class 'bool'>).

```
Result (Summer mode): True (<class 'bool'>)
Expectation (Summer mode): result = True (<class 'bool'>)
```

Success Temperature setpoint is correct (Content 5 and Type is <class 'int'>).

```
Result (Temperature setpoint): 5 (<class 'int'>)
Expectation (Temperature setpoint): result = 5 (<class 'int'>)
```

Info Deactivating summer mode Sending message with topic videv/ffe/sleep/heating_valve/summer_mode/set and payload Received message with topic zigbee/ffe/sleep/heating_valve/set and payload b'{"current_heating_setpoint": 21.5}' Sending message with topic zigbee/ffe/sleep/heating_valve and payload → {"current_heating_setpoint": 21.5, "local_temperature": 20.7, "battery": 97} Received message with topic videv/ffe/sleep/heating_valve/valve_temperature_setpoint \rightarrow and payload b'21.5' Received message with topic videv/ffe/sleep/heating_valve/summer_mode and payload \hookrightarrow b'false' Received message with topic zigbee/ffe/sleep/heating_valve and payload → b'{"current_heating_setpoint": 21.5, "local_temperature": 20.7, "battery": 97}' Success Summer mode is correct (Content False and Type is <class 'bool'>). Result (Summer mode): False (<class 'bool'>) Expectation (Summer mode): result = False (<class 'bool'>)

4.23 User temperature setpoint test for device and virtual device: zigbee/ffe/sleep/heating_valve

Testsummary

Success

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (22)

Temperature setpoint is correct (Content 21.5 and Type is <class 'float'>).

Expectation (Temperature setpoint): result = 21.5 (<class 'float'>)

Result (Temperature setpoint): 21.5 (<class 'float'>)

Start-Time: 2023-02-15 07:13:50,738 Finished-Time: 2023-02-15 07:13:51,949

Time-Consumption 1.210s

Test	rosi	ılte
1621	162	นเเธ.

Info	Changing valve temperature setpoint to '16.5'
Success	Virtual device valve temperature is correct (Content 16.5 and Type is <class 'float'="">).</class>
Success	Virtual device user temperature is correct (Content 16.5 and Type is <class 'float'="">).</class>
Info	Changing videv user temperature setpoint to '21.5'
Success	Valve device temperature setpoint is correct (Content 21.5 and Type is <class 'float'="">).</class>
Success	Virtual device valve temperature is correct (Content 21.5 and Type is <class 'float'="">).</class>
Info	Changing valve temperature setpoint to '16.5'

Success	Virtual device valve temperature is correct (Content 16.5 and Type is <class 'float'="">).</class>
Success	Virtual device user temperature is correct (Content 16.5 and Type is <class 'float'="">).</class>
Info	Changing videv user temperature setpoint to '21.5'
Success Valve device temperature setpoint is correct (Content 21.5 and Type is <class 'float'=""></class>	
Success	Virtual device valve temperature is correct (Content 21.5 and Type is <class 'float'="">).</class>

Testdetails

```
Info
      Changing valve temperature setpoint to '16.5'
      Sending message with topic zigbee/ffe/sleep/heating_valve and payload
       Received message with topic zigbee/ffe/sleep/heating_valve and payload
          b'{"current_heating_setpoint": 16.5, "local_temperature": 20.7, "battery": 97}'
      Received message with topic zigbee/ffe/sleep/heating_valve/set and payload
          b'{"current_heating_setpoint": 16.5}'
      Received message with topic videv/ffe/sleep/heating_valve/valve_temperature_setpoint
          and payload b'16.5'
      Received message with topic videv/ffe/sleep/heating_valve/user_temperature_setpoint
       \hookrightarrow and payload b'16.5'
         Virtual device valve temperature is correct (Content 16.5 and Type is <class 'float'>).
Success
      Result (Virtual device valve temperature): 16.5 (<class 'float'>)
      Expectation (Virtual device valve temperature): result = 16.5 (<class 'float'>)
Success
         Virtual device user temperature is correct (Content 16.5 and Type is <class 'float'>).
      Result (Virtual device user temperature): 16.5 (<class 'float'>)
      Expectation (Virtual device user temperature): result = 16.5 (<class 'float'>)
Info
      Changing videv user temperature setpoint to '21.5'
      Sending message with topic
```

→ videv/ffe/sleep/heating_valve/user_temperature_setpoint/set and payload 21.5

Received message with topic zigbee/ffe/sleep/heating_valve/set and payload

→ b'{"current_heating_setpoint": 21.5}'

Sending message with topic zigbee/ffe/sleep/heating_valve and payload

→ {"current_heating_setpoint": 21.5, "local_temperature": 20.7, "battery": 97}

Received message with topic videv/ffe/sleep/heating_valve/valve_temperature_setpoint \rightarrow and payload b'21.5'

Received message with topic videv/ffe/sleep/heating_valve/user_temperature_setpoint \rightarrow and payload b'21.5'

Received message with topic zigbee/ffe/sleep/heating_valve and payload

 $_{\rightarrow}$ b'{"current_heating_setpoint": 21.5, "local_temperature": 20.7, "battery": 97}'

```
Success
          Valve device temperature setpoint is correct (Content 21.5 and Type is <class 'float'>).
       Result (Valve device temperature setpoint): 21.5 (<class 'float'>)
       Expectation (Valve device temperature setpoint): result = 21.5 (<class 'float'>)
Success
          Virtual device valve temperature is correct (Content 21.5 and Type is <class 'float'>).
       Result (Virtual device valve temperature): 21.5 (<class 'float'>)
       Expectation (Virtual device valve temperature): result = 21.5 (<class 'float'>)
Info
      Changing valve temperature setpoint to '16.5'
       Sending message with topic zigbee/ffe/sleep/heating_valve and payload
       → {"current_heating_setpoint": 16.5, "local_temperature": 20.7, "battery": 97}
       Received message with topic zigbee/ffe/sleep/heating_valve and payload
       → b'{"current_heating_setpoint": 16.5, "local_temperature": 20.7, "battery": 97}'
       Received message with topic zigbee/ffe/sleep/heating_valve/set and payload
       → b'{"current_heating_setpoint": 16.5}'
       Received message with topic videv/ffe/sleep/heating_valve/valve_temperature_setpoint
       \hookrightarrow and payload b'16.5'
       Received message with topic videv/ffe/sleep/heating_valve/user_temperature_setpoint
       \rightarrow and payload b'16.5'
          Virtual device valve temperature is correct (Content 16.5 and Type is <class 'float'>).
Success
       Result (Virtual device valve temperature): 16.5 (<class 'float'>)
       Expectation (Virtual device valve temperature): result = 16.5 (<class 'float'>)
Success
          Virtual device user temperature is correct (Content 16.5 and Type is <class 'float'>).
       Result (Virtual device user temperature): 16.5 (<class 'float'>)
       Expectation (Virtual device user temperature): result = 16.5 (<class 'float'>)
Info
      Changing videv user temperature setpoint to '21.5'
       Sending message with topic
       → videv/ffe/sleep/heating_valve/user_temperature_setpoint/set and payload 21.5
       Received message with topic zigbee/ffe/sleep/heating_valve/set and payload
       → b'{"current_heating_setpoint": 21.5}'
       Sending message with topic zigbee/ffe/sleep/heating_valve and payload
          {"current_heating_setpoint": 21.5, "local_temperature": 20.7, "battery": 97}
       Received message with topic videv/ffe/sleep/heating_valve/valve_temperature_setpoint
           and payload b'21.5'
```

Received message with topic videv/ffe/sleep/heating_valve/user_temperature_setpoint

and payload b'21.5'

Received message with topic zigbee/ffe/sleep/heating_valve and payload

Success Valve device temperature setpoint is correct (Content 21.5 and Type is <class 'float'>).

Result (Valve device temperature setpoint): 21.5 (<class 'float'>)

Expectation (Valve device temperature setpoint): result = 21.5 (<class 'float'>)

b'{"current_heating_setpoint": 21.5, "local_temperature": 20.7, "battery": 97}'

Success Virtual device valve temperature is correct (Content 21.5 and Type is <class 'float'>).

Result (Virtual device valve temperature): 21.5 (<class 'float'>)

Expectation (Virtual device valve temperature): result = 21.5 (<class 'float'>)

4.24 Brightness test for device and virtual device: zigbee/ffe/sleep/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (50)

Start-Time: 2023-02-15 07:13:51,949 Finished-Time: 2023-02-15 07:13:53,764

Time-Consumption 1.815s

Testresults:

Info Setting preconditions (Power on)

Success Virtual device brightness is correct (Content 50 and Type is <class 'int'>).

Info Changing light device brightness to '65'

Success Virtual device brightness is correct (Content 65 and Type is <class 'int'>).

Success Light device brightness is correct (Content 65 and Type is <class 'int'>).

Info Changing virtual device brightness to '50'

Success

Light device brightness is correct (Content 50 and Type is <class 'int'>).

Success

Virtual device brightness is correct (Content 50 and Type is <class 'int'>).

Info Changing light device brightness to '65'

Success Virtual device brightness is correct (Content 65 and Type is <class 'int'>).

Success Light device brightness is correct (Content 65 and Type is <class 'int'>).

Info Changing virtual device brightness to '50'

Success Light device brightness is correct (Content 50 and Type is <class 'int'>).

Info Resetting precondition (Power off)

Testdetails

Info Setting preconditions (Power on)

Sending message with topic shellies/ffe/sleep/main_light/relay/0 and payload on

```
Sending message with topic zigbee/ffe/sleep/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic shellies/ffe/sleep/main_light/relay/0 and payload b'on'
       Received message with topic zigbee/ffe/sleep/main_light and payload b'{"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/sleep/main_light/state and payload b'true'
       Received message with topic videv/ffe/sleep/main_light/brightness and payload b'50'
       Received message with topic videv/ffe/sleep/main_light/color_temp and payload b'5'
Success
         Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Virtual device brightness): 50 (<class 'int'>)
       Expectation (Virtual device brightness): result = 50 (<class 'int'>)
Info
      Changing light device brightness to '65'
       Sending message with topic zigbee/ffe/sleep/main_light and payload {"state": "on",
       → "brightness": 165.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/sleep/main_light and payload b'{"state": "on",
       → "brightness": 165.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/sleep/main_light/brightness and payload b'65'
          Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
Success
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
Success
         Light device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/ffe/sleep/main_light/brightness/set and payload 50
       Received message with topic zigbee/ffe/sleep/main_light/set and payload

    b'{"brightness": 128}'

       Sending message with topic zigbee/ffe/sleep/main_light and payload {"state": "on",
          "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/sleep/main_light and payload b'{"state": "on",
           "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/sleep/main_light/brightness and payload b'50'
          Light device brightness is correct (Content 50 and Type is <class 'int'>).
Success
       Result (Light device brightness): 50 (<class 'int'>)
```

```
Expectation (Light device brightness): result = 50 (<class 'int'>)
Success
          Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Virtual device brightness): 50 (<class 'int'>)
       Expectation (Virtual device brightness): result = 50 (<class 'int'>)
Info
      Changing light device brightness to '65'
       Sending message with topic zigbee/ffe/sleep/main_light and payload {"state": "on",
       → "brightness": 165.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/sleep/main_light and payload b'{"state": "on",

    "brightness": 165.0, "color_temp": 352.0}'

       Received message with topic videv/ffe/sleep/main_light/brightness and payload b'65'
Success
          Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
          Light device brightness is correct (Content 65 and Type is <class 'int'>).
Success
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/ffe/sleep/main_light/brightness/set and payload 50
       Received message with topic zigbee/ffe/sleep/main_light/set and payload

    b'{"brightness": 128}'

       Sending message with topic zigbee/ffe/sleep/main_light and payload {"state": "on",
          "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/sleep/main_light and payload b'{"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/sleep/main_light/brightness and payload b'50'
          Light device brightness is correct (Content 50 and Type is <class 'int'>).
Success
       Result (Light device brightness): 50 (<class 'int'>)
       Expectation (Light device brightness): result = 50 (<class 'int'>)
Info
      Resetting precondition (Power off)
       Sending message with topic shellies/ffe/sleep/main_light/relay/0 and payload off
       Received message with topic shellies/ffe/sleep/main_light/relay/0 and payload b'off'
       Received message with topic videv/ffe/sleep/main_light/state and payload b'false'
```

4.25 Color temperature test for device and virtual device: zigbee/ffe/sleep/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (81)

Start-Time: 2023-02-15 07:13:53,764 Finished-Time: 2023-02-15 07:13:55,578

Time-Consumption 1.814s

Testresults:

Info Setting preconditions (Power on)
Success Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).
Info Changing light device color temperature to '5'

Success Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).

Success

Light device brightness is correct (Content 8 and Type is <class 'int'>).

Info Changing virtual device color temperature to '5'

Success Light device brightness is correct (Content 5 and Type is <class 'int'>).

Success Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).

Info Changing light device color temperature to '5'

Success Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).

Success Light device brightness is correct (Content 8 and Type is <class 'int'>).

Info Changing virtual device color temperature to '5'

Success Light device brightness is correct (Content 5 and Type is <class 'int'>).

Info Resetting precondition (Power off)

Testdetails

Info Setting preconditions (Power on)

Received message with topic shellies/ffe/sleep/main_light/relay/O and payload b'on'

Received message with topic zigbee/ffe/sleep/main_light and payload b'{"state": "on", final control of the con

→ "brightness": 127.0, "color_temp": 352.0}'

Received message with topic videv/ffe/sleep/main_light/state and payload b'true'

Success Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).

Result (Virtual device color temperature): 5 (<class 'int'>)

Expectation (Virtual device color temperature): result = 5 (<class 'int'>)

Info Changing light device color temperature to '5'

```
Received message with topic zigbee/ffe/sleep/main_light and payload b'{"state": "on",
       → "brightness": 127.0, "color_temp": 413.0}'
       Received message with topic videv/ffe/sleep/main_light/color_temp and payload b'8'
          Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
Success
       Result (Virtual device color temperature): 8 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
Success
          Light device brightness is correct (Content 8 and Type is <class 'int'>).
       Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
Info
      Changing virtual device color temperature to '5'
       Sending message with topic videv/ffe/sleep/main_light/color_temp/set and payload 5
       Received message with topic zigbee/ffe/sleep/main_light/set and payload
       \rightarrow b'{"color_temp": 352}'
       Sending message with topic zigbee/ffe/sleep/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/sleep/main_light and payload b'{"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/sleep/main_light/color_temp and payload b'5'
          Light device brightness is correct (Content 5 and Type is <class 'int'>).
Success
       Result (Light device brightness): 5 (<class 'int'>)
       Expectation (Light device brightness): result = 5 (<class 'int'>)
Success
          Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).
       Result (Virtual device color temperature): 5 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 5 (<class 'int'>)
Info
      Changing light device color temperature to '5'
       Sending message with topic zigbee/ffe/sleep/main_light and payload {"state": "on",
          "brightness": 127.0, "color_temp": 413.0}
       Received message with topic zigbee/ffe/sleep/main_light and payload b'{"state": "on",
           "brightness": 127.0, "color_temp": 413.0}'
       Received message with topic videv/ffe/sleep/main_light/color_temp and payload b'8'
Success
          Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
       Result (Virtual device color temperature): 8 (<class 'int'>)
```

```
Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
         Light device brightness is correct (Content 8 and Type is <class 'int'>).
Success
       Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
Info
      Changing virtual device color temperature to '5'
       Sending message with topic videv/ffe/sleep/main_light/color_temp/set and payload 5
       Received message with topic zigbee/ffe/sleep/main_light/set and payload

    b'{"color_temp": 352}'

       Sending message with topic zigbee/ffe/sleep/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffe/sleep/main_light and payload b'{"state": "on",
           "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/sleep/main_light/color_temp and payload b'5'
Success
         Light device brightness is correct (Content 5 and Type is <class 'int'>).
       Result (Light device brightness): 5 (<class 'int'>)
       Expectation (Light device brightness): result = 5 (<class 'int'>)
      Resetting precondition (Power off)
Info
       Sending message with topic shellies/ffe/sleep/main_light/relay/0 and payload off
       Received message with topic shellies/ffe/sleep/main_light/relay/0 and payload b'off'
       Received message with topic videv/ffe/sleep/main_light/state and payload b'false'
```

4.26 Power On/Off test for device and virtual device: shellies/ffe/sleep/main_light

Testsummary

This test was passed with the state: Success.

Caller:	/home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)
Start-Time:	2023-02-15 07:13:55,579
Finished-Time:	2023-02-15 07:13:56,789
T: C	1 210-

Time-Consumption	1.210s
Testresults:	
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>

Success Virtual device state is correct (Content False and Type is <class 'bool'>). Info Changing switching device state to 'True' Success Virtual device state is correct (Content True and Type is <class 'bool'>). Success Switching device state is correct (Content True and Type is <class 'bool'>). Info Changing virtual device state to 'False' Success Switching device state is correct (Content False and Type is <class 'bool'>). **Testdetails** Virtual device state is correct (Content False and Type is <class 'bool'>). Success Result (Virtual device state): False (<class 'bool'>) Expectation (Virtual device state): result = False (<class 'bool'>) Info Changing switching device state to 'True' Sending message with topic shellies/ffe/sleep/main_light/relay/0 and payload on Sending message with topic zigbee/ffe/sleep/main_light and payload {"state": "on", "brightness": 127.0, "color_temp": 352.0} Received message with topic shellies/ffe/sleep/main_light/relay/0 and payload b'on' Received message with topic zigbee/ffe/sleep/main_light and payload b'{"state": "on", → "brightness": 127.0, "color_temp": 352.0}' Received message with topic videv/ffe/sleep/main_light/state and payload b'true' Virtual device state is correct (Content True and Type is <class 'bool'>). Success Result (Virtual device state): True (<class 'bool'>) Expectation (Virtual device state): result = True (<class 'bool'>) Success Switching device state is correct (Content True and Type is <class 'bool'>). Result (Switching device state): True (<class 'bool'>) Expectation (Switching device state): result = True (<class 'bool'>) Info Changing virtual device state to 'False' Sending message with topic videv/ffe/sleep/main_light/state/set and payload false Received message with topic shellies/ffe/sleep/main_light/relay/0/command and payload ⇔ b'off' Sending message with topic shellies/ffe/sleep/main_light/relay/0 and payload off Received message with topic shellies/ffe/sleep/main_light/relay/0 and payload b'off' Received message with topic videv/ffe/sleep/main_light/state and payload b'false'

Switching device state is correct (Content False and Type is <class 'bool'>).

Result (Switching device state): False (<class 'bool'>)

Success

```
Expectation (Switching device state): result = False (<class 'bool'>)
Success
          Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic shellies/ffe/sleep/main_light/relay/0 and payload on
       Sending message with topic zigbee/ffe/sleep/main_light and payload {"state": "on",
          "brightness": 127.0, "color_temp": 352.0}
       Received message with topic shellies/ffe/sleep/main_light/relay/0 and payload b'on'
       Received message with topic zigbee/ffe/sleep/main_light and payload b'{"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffe/sleep/main_light/state and payload b'true'
          Virtual device state is correct (Content True and Type is <class 'bool'>).
Success
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
         Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/ffe/sleep/main_light/state/set and payload false
       Received message with topic shellies/ffe/sleep/main_light/relay/0/command and payload
       ⇔ b'off'
       Sending message with topic shellies/ffe/sleep/main_light/relay/0 and payload off
       Received message with topic shellies/ffe/sleep/main_light/relay/0 and payload b'off'
       Received message with topic videv/ffe/sleep/main_light/state and payload b'false'
Success
         Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
```

4.27 Away mode test: zigbee/ffw/bath/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (101)

Start-Time: 2023-02-15 07:13:56,790 Finished-Time: 2023-02-15 07:13:57,697

Time-Consumption 0.907s

Testresults:

Info Setting preconditions (Default setpoint)

Success Away mode is correct (Content False and Type is <class 'bool'>).

Info Activating away mode

Success Away mode is correct (Content True and Type is <class 'bool'>).

Success Temperature setpoint is correct (Content 18 and Type is <class 'int'>).

Info Deactivating away mode

Success Away mode is correct (Content False and Type is <class 'bool'>).

Success Temperature setpoint is correct (Content 23 and Type is <class 'int'>).

Testdetails

Info Setting preconditions (Default setpoint)

Sending message with topic videv/ffw/bath/heating_valve/set_default_temperature/set \rightarrow and payload null

→ and payroad nurr

Received message with topic videv/ffw/bath/heating_valve/user_temperature_setpoint

 \hookrightarrow and payload b'23'

Received message with topic zigbee/ffw/bath/heating_valve/set and payload

→ b'{"current_heating_setpoint": 23}'

Sending message with topic zigbee/ffw/bath/heating_valve and payload

Received message with topic videv/ffw/bath/heating_valve/valve_temperature_setpoint

→ and payload b'23'

Received message with topic zigbee/ffw/bath/heating_valve and payload

→ b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}'

Success Away mode is correct (Content False and Type is <class 'bool'>).

Result (Away mode): False (<class 'bool'>)

Expectation (Away mode): result = False (<class 'bool'>)

Info Activating away mode

Sending message with topic videv/ffw/bath/heating_valve/away_mode/set and payload true

Received message with topic zigbee/ffw/bath/heating_valve/set and payload

→ b'{"current_heating_setpoint": 18}'

Sending message with topic zigbee/ffw/bath/heating_valve and payload

- {"current_heating_setpoint": 18, "local_temperature": 20.7, "battery": 97}

Received message with topic videv/ffw/bath/heating_valve/valve_temperature_setpoint

 \rightarrow and payload b'18'

```
Received message with topic videv/ffw/bath/heating_valve/away_mode and payload b'true'
       Received message with topic zigbee/ffw/bath/heating_valve and payload
       → b'{"current_heating_setpoint": 18, "local_temperature": 20.7, "battery": 97}'
Success
          Away mode is correct (Content True and Type is <class 'bool'>).
       Result (Away mode): True (<class 'bool'>)
       Expectation (Away mode): result = True (<class 'bool'>)
Success
          Temperature setpoint is correct (Content 18 and Type is <class 'int'>).
       Result (Temperature setpoint): 18 (<class 'int'>)
       Expectation (Temperature setpoint): result = 18 (<class 'int'>)
Info
      Deactivating away mode
       Sending message with topic videv/ffw/bath/heating_valve/away_mode/set and payload
       \hookrightarrow false
       Received message with topic zigbee/ffw/bath/heating_valve/set and payload
       → b'{"current_heating_setpoint": 23}'
       Sending message with topic zigbee/ffw/bath/heating_valve and payload
       _{\rightarrow} {"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}
       Received message with topic videv/ffw/bath/heating_valve/valve_temperature_setpoint
       \rightarrow and payload b'23'
       Received message with topic videv/ffw/bath/heating_valve/away_mode and payload
       ⇔ b'false'
       Received message with topic zigbee/ffw/bath/heating_valve and payload
       → b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}'
Success
          Away mode is correct (Content False and Type is <class 'bool'>).
       Result (Away mode): False (<class 'bool'>)
       Expectation (Away mode): result = False (<class 'bool'>)
Success
          Temperature setpoint is correct (Content 23 and Type is <class 'int'>).
       Result (Temperature setpoint): 23 (<class 'int'>)
       Expectation (Temperature setpoint): result = 23 (<class 'int'>)
```

4.28 Boost mode test: zigbee/ffw/bath/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (128)

Start-Time: 2023-02-15 07:13:57,698 Finished-Time: 2023-02-15 07:13:58,604

Time-Consumption 0.907s

Testresults:

Info Setting preconditions (Default setpoint)

Success Boost timer is correct (Content 0 and Type is <class 'int'>).

Info Activating boost mode

Success Boost timer is greater expectation (Content 900 and Type is <class 'int'>).

Info Setting postconditions (Default setpoint)

Success Boost timer is correct (Content 0 and Type is <class 'int'>).

Testdetails

Info Setting preconditions (Default setpoint)

Sending message with topic videv/ffw/bath/heating_valve/set_default_temperature/set \rightarrow and payload null

Success Boost timer is correct (Content 0 and Type is <class 'int'>).

Result (Boost timer): 0 (<class 'int'>)

Expectation (Boost timer): result = 0 (<class 'int'>)

Info Activating boost mode

Sending message with topic videv/ffw/bath/heating_valve/start_boost/set and payload \rightarrow true

Received message with topic videv/ffw/bath/heating_valve/boost_timer and payload b'900'

Received message with topic zigbee/ffw/bath/heating_valve/set and payload b'{"current_heating_setpoint": 30}'

Sending message with topic zigbee/ffw/bath/heating_valve and payload

Gray topic = \text{"current_heating_setpoint": 30, "local_temperature": 20.7, "battery": 97}

Received message with topic videv/ffw/bath/heating_valve/valve_temperature_setpoint \rightarrow and payload b'30'

Received message with topic zigbee/ffw/bath/heating_valve and payload

b'{"current_heating_setpoint": 30, "local_temperature": 20.7, "battery": 97}'

Success Boost timer is greater expectation (Content 900 and Type is <class 'int'>).

Result (Boost timer): 900 (<class 'int'>)

Expectation (Boost timer): result > 0 (<class 'int'>)

Info	Setting postconditions (Default setpoint)
	Sending message with topic videv/ffw/bath/heating_valve/set_default_temperature/set
	ightarrow and payload true
	Received message with topic videv/ffw/bath/heating_valve/boost_timer and payload b'0'
	Received message with topic zigbee/ffw/bath/heating_valve/set and payload b'{"current_heating_setpoint": 23}'
	Sending message with topic zigbee/ffw/bath/heating_valve and payload
	Received message with topic videv/ffw/bath/heating_valve/valve_temperature_setpoint and payload b'23'
	Received message with topic zigbee/ffw/bath/heating_valve and payload b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}'

Success Boost timer is correct (Content 0 and Type is <class 'int'>).

```
Result (Boost timer): 0 (<class 'int'>)
Expectation (Boost timer): result = 0 (<class 'int'>)
```

4.29 Default temperature test for device and virtual device: zigbee/ffw/bath/heating_valve

Testsummary

This test was passed with the state: Success.

Caller:	/home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (50)
Start-Time:	2023-02-15 07:13:58,605
Finished-Time:	2023-02-15 07:13:59,209
Time-Consumption	0.604s

Testresults:	
restresuits.	

Testresults:	
Info	Setting preconditions (Valve setpoint to 18.0)
Success	Valve temperature setpoint (is not default temperature) is correct (Content True and Type is <class 'bool'="">).</class>
Info	Triggering set to default temperature (23.0)
Success	Valve temperature setpoint is correct (Content 23 and Type is <class 'int'="">).</class>

Testdetails

Setting preconditions (Valve setpoint to 18.0) Info

```
Sending message with topic zigbee/ffw/bath/heating_valve and payload
← {"current_heating_setpoint": 18, "local_temperature": 20.7, "battery": 97}
Received message with topic zigbee/ffw/bath/heating_valve and payload
_{\rightarrow} b'{"current_heating_setpoint": 18, "local_temperature": 20.7, "battery": 97}'
```

```
Received message with topic zigbee/ffw/bath/heating_valve/set and payload
       → b'{"current_heating_setpoint": 18}'
       Received message with topic videv/ffw/bath/heating_valve/valve_temperature_setpoint

→ and payload b'18'

       Received message with topic videv/ffw/bath/heating_valve/user_temperature_setpoint

→ and payload b'18'

Success
         Valve temperature setpoint (is not default temperature) is correct (Content True and Type is <class
          'bool'>).
       Result (Valve temperature setpoint (is not default temperature)): True (<class
       → 'bool'>)
       Expectation (Valve temperature setpoint (is not default temperature)): result = True
       Info
      Triggering set to default temperature (23.0)
       Sending message with topic videv/ffw/bath/heating_valve/set_default_temperature/set
       \hookrightarrow and payload null
       Received message with topic videv/ffw/bath/heating_valve/user_temperature_setpoint
       \hookrightarrow and payload b'23'
       Received message with topic zigbee/ffw/bath/heating_valve/set and payload
       → b'{"current_heating_setpoint": 23}'
       Sending message with topic zigbee/ffw/bath/heating_valve and payload
          {"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}
       Received message with topic videv/ffw/bath/heating_valve/valve_temperature_setpoint
       \rightarrow and payload b'23'
       Received message with topic zigbee/ffw/bath/heating_valve and payload
       → b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}'
Success
         Valve temperature setpoint is correct (Content 23 and Type is <class 'int'>).
       Result (Valve temperature setpoint): 23 (<class 'int'>)
       Expectation (Valve temperature setpoint): result = 23 (<class 'int'>)
```

4.30 Summer mode test: zigbee/ffw/bath/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (74)

Start-Time: 2023-02-15 07:13:59,210 Finished-Time: 2023-02-15 07:14:00,116

Time-Consumption 0.906s

Testresults:

Info	Setting preconditions (Default setpoint)
Success	Summer mode is correct (Content False and Type is <class 'bool'="">).</class>
Info	Activating summer mode
Success	Summer mode is correct (Content True and Type is <class 'bool'="">).</class>
Success	Temperature setpoint is correct (Content 5 and Type is <class 'int'="">).</class>
Info	Deactivating summer mode
Success	Summer mode is correct (Content False and Type is <class 'bool'="">).</class>
Success	Temperature setpoint is correct (Content 23 and Type is <class 'int'="">).</class>

Testdetails

Info Setting preconditions (Default setpoint)

Sending message with topic videv/ffw/bath/heating_valve/set_default_temperature/set $\ \hookrightarrow \$ and payload null

Success Summer mode is correct (Content False and Type is <class 'bool'>).

```
Result (Summer mode): False (<class 'bool'>)

Expectation (Summer mode): result = False (<class 'bool'>)
```

Info Activating summer mode

Sending message with topic videv/ffw/bath/heating_valve/summer_mode/set and payload true

Received message with topic zigbee/ffw/bath/heating_valve/set and payload b'{"current_heating_setpoint": 5}'

Received message with topic videv/ffw/bath/heating_valve/valve_temperature_setpoint and payload b'5'

Received message with topic videv/ffw/bath/heating_valve/summer_mode and payload b'true'

Received message with topic zigbee/ffw/bath/heating_valve and payload

b'{"current_heating_setpoint": 5, "local_temperature": 20.7, "battery": 97}'

Success Summer mode is correct (Content True and Type is <class 'bool'>).

```
Result (Summer mode): True (<class 'bool'>)
Expectation (Summer mode): result = True (<class 'bool'>)
```

Success Temperature setpoint is correct (Content 5 and Type is <class 'int'>).

```
Result (Temperature setpoint): 5 (<class 'int'>)
Expectation (Temperature setpoint): result = 5 (<class 'int'>)
```

Info Deactivating summer mode Sending message with topic videv/ffw/bath/heating_valve/summer_mode/set and payload Received message with topic zigbee/ffw/bath/heating_valve/set and payload b'{"current_heating_setpoint": 23}' Sending message with topic zigbee/ffw/bath/heating_valve and payload Received message with topic videv/ffw/bath/heating_valve/valve_temperature_setpoint \hookrightarrow and payload b'23' Received message with topic videv/ffw/bath/heating_valve/summer_mode and payload \hookrightarrow b'false' Received message with topic zigbee/ffw/bath/heating_valve and payload → b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}' Success Summer mode is correct (Content False and Type is <class 'bool'>). Result (Summer mode): False (<class 'bool'>) Expectation (Summer mode): result = False (<class 'bool'>) Temperature setpoint is correct (Content 23 and Type is <class 'int'>). Success Result (Temperature setpoint): 23 (<class 'int'>)

4.31 User temperature setpoint test for device and virtual device: zigbee/ffw/bath/ heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (22)

Expectation (Temperature setpoint): result = 23 (<class 'int'>)

Start-Time: 2023-02-15 07:14:00,116 Finished-Time: 2023-02-15 07:14:01,327

Time-Consumption 1.211s

Tes	tr	es	ul	ts	:

Testresults:	
Info	Changing valve temperature setpoint to '18.0'
Success	Virtual device valve temperature is correct (Content 18 and Type is <class 'int'="">).</class>
Success	Virtual device user temperature is correct (Content 18 and Type is <class 'int'="">).</class>
Info	Changing videv user temperature setpoint to '23.0'
Success	Valve device temperature setpoint is correct (Content 23 and Type is <class 'int'="">).</class>
Success	Virtual device valve temperature is correct (Content 23 and Type is <class 'int'="">).</class>
Info	Changing valve temperature setpoint to '18.0'

Success	Virtual device valve temperature is correct (Content 18 and Type is <class 'int'="">).</class>
Success	Virtual device user temperature is correct (Content 18 and Type is <class 'int'="">).</class>
Info	Changing videv user temperature setpoint to '23.0'
Success	Valve device temperature setpoint is correct (Content 23 and Type is <class 'int'="">).</class>
Success	Virtual device valve temperature is correct (Content 23 and Type is $<$ class 'int' $>$).

```
Testdetails
 Info
       Changing valve temperature setpoint to '18.0'
        Sending message with topic zigbee/ffw/bath/heating_valve and payload
        Received message with topic zigbee/ffw/bath/heating_valve and payload
        → b'{"current_heating_setpoint": 18, "local_temperature": 20.7, "battery": 97}'
        Received message with topic zigbee/ffw/bath/heating_valve/set and payload
           b'{"current_heating_setpoint": 18}'
        Received message with topic videv/ffw/bath/heating_valve/valve_temperature_setpoint
           and payload b'18'
        Received message with topic videv/ffw/bath/heating_valve/user_temperature_setpoint
        \hookrightarrow and payload b'18'
          Virtual device valve temperature is correct (Content 18 and Type is <class 'int'>).
 Success
        Result (Virtual device valve temperature): 18 (<class 'int'>)
        Expectation (Virtual device valve temperature): result = 18 (<class 'int'>)
 Success
          Virtual device user temperature is correct (Content 18 and Type is <class 'int'>).
        Result (Virtual device user temperature): 18 (<class 'int'>)
        Expectation (Virtual device user temperature): result = 18 (<class 'int'>)
 Info
       Changing videv user temperature setpoint to '23.0'
        Sending message with topic videv/ffw/bath/heating_valve/user_temperature_setpoint/set
        \rightarrow and payload 23
        Received message with topic zigbee/ffw/bath/heating_valve/set and payload
        → b'{"current_heating_setpoint": 23}'
        Sending message with topic zigbee/ffw/bath/heating_valve and payload
            {"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}
        Received message with topic videv/ffw/bath/heating_valve/valve_temperature_setpoint
        \hookrightarrow and payload b'23'
        Received message with topic videv/ffw/bath/heating_valve/user_temperature_setpoint
        \hookrightarrow and payload b'23'
        Received message with topic zigbee/ffw/bath/heating_valve and payload
```

→ b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}'

```
Success
         Valve device temperature setpoint is correct (Content 23 and Type is <class 'int'>).
      Result (Valve device temperature setpoint): 23 (<class 'int'>)
      Expectation (Valve device temperature setpoint): result = 23 (<class 'int'>)
Success
         Virtual device valve temperature is correct (Content 23 and Type is <class 'int'>).
      Result (Virtual device valve temperature): 23 (<class 'int'>)
      Expectation (Virtual device valve temperature): result = 23 (<class 'int'>)
Info
      Changing valve temperature setpoint to '18.0'
      Sending message with topic zigbee/ffw/bath/heating_valve and payload
       Received message with topic zigbee/ffw/bath/heating_valve and payload
       → b'{"current_heating_setpoint": 18, "local_temperature": 20.7, "battery": 97}'
      Received message with topic zigbee/ffw/bath/heating_valve/set and payload
       → b'{"current_heating_setpoint": 18}'
      Received message with topic videv/ffw/bath/heating_valve/valve_temperature_setpoint
       \rightarrow and payload b'18'
      Received message with topic videv/ffw/bath/heating_valve/user_temperature_setpoint

→ and payload b'18'

         Virtual device valve temperature is correct (Content 18 and Type is <class 'int'>).
Success
      Result (Virtual device valve temperature): 18 (<class 'int'>)
      Expectation (Virtual device valve temperature): result = 18 (<class 'int'>)
Success
         Virtual device user temperature is correct (Content 18 and Type is <class 'int'>).
      Result (Virtual device user temperature): 18 (<class 'int'>)
      Expectation (Virtual device user temperature): result = 18 (<class 'int'>)
Info
      Changing videv user temperature setpoint to '23.0'
      Sending message with topic videv/ffw/bath/heating_valve/user_temperature_setpoint/set
       \rightarrow and payload 23
      Received message with topic zigbee/ffw/bath/heating_valve/set and payload
       → b'{"current_heating_setpoint": 23}'
      Sending message with topic zigbee/ffw/bath/heating_valve and payload
          {"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}
      Received message with topic videv/ffw/bath/heating_valve/valve_temperature_setpoint
          and payload b'23'
```

Received message with topic zigbee/ffw/bath/heating_valve and payload

b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}'

Received message with topic videv/ffw/bath/heating_valve/user_temperature_setpoint

and payload b'23'

Success Valve device temperature setpoint is correct (Content 23 and Type is <class 'int'>).

Result (Valve device temperature setpoint): 23 (<class 'int'>)

Expectation (Valve device temperature setpoint): result = 23 (<class 'int'>)

Success Virtual device valve temperature is correct (Content 23 and Type is <class 'int'>).

Result (Virtual device valve temperature): 23 (<class 'int'>)

Expectation (Virtual device valve temperature): result = 23 (<class 'int'>)

4.32 Brightness test for device and virtual device: zigbee/ffw/julian/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (50)

Start-Time: 2023-02-15 07:14:01,327 Finished-Time: 2023-02-15 07:14:03,140

Time-Consumption 1.813s

Testresults:

Info

Success Virtual device brightness is correct (Content 50 and Type is <class 'int'>).

Info Changing light device brightness to '65'

Setting preconditions (Power on)

Success Virtual device brightness is correct (Content 65 and Type is <class 'int'>).

Success Light device brightness is correct (Content 65 and Type is <class 'int'>).

Info Changing virtual device brightness to '50'

Success Light device brightness is correct (Content 50 and Type is <class 'int'>).

Success Virtual device brightness is correct (Content 50 and Type is <class 'int'>).

Info Changing light device brightness to '65'

Success Virtual device brightness is correct (Content 65 and Type is <class 'int'>).

Success Light device brightness is correct (Content 65 and Type is <class 'int'>).

Info Changing virtual device brightness to '50'

Success Light device brightness is correct (Content 50 and Type is <class 'int'>).

Info Resetting precondition (Power off)

Testdetails

Info Setting preconditions (Power on)

Sending message with topic shellies/ffw/julian/main_light/relay/0 and payload on

```
Sending message with topic zigbee/ffw/julian/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic shellies/ffw/julian/main_light/relay/0 and payload b'on'
       Received message with topic zigbee/ffw/julian/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffw/julian/main_light/state and payload b'true'
       Received message with topic videv/ffw/julian/main_light/brightness and payload b'50'
       Received message with topic videv/ffw/julian/main_light/color_temp and payload b'5'
Success
         Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Virtual device brightness): 50 (<class 'int'>)
       Expectation (Virtual device brightness): result = 50 (<class 'int'>)
Info
      Changing light device brightness to '65'
       Sending message with topic zigbee/ffw/julian/main_light and payload {"state": "on",
       → "brightness": 165.0, "color_temp": 352.0}
       Received message with topic zigbee/ffw/julian/main_light and payload b'{"state":
       → "on", "brightness": 165.0, "color_temp": 352.0}'
       Received message with topic videv/ffw/julian/main_light/brightness and payload b'65'
          Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
Success
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
Success
         Light device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/ffw/julian/main_light/brightness/set and payload 50
       Received message with topic zigbee/ffw/julian/main_light/set and payload

    b'{"brightness": 128}'

       Sending message with topic zigbee/ffw/julian/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffw/julian/main_light and payload b'{"state":
          "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffw/julian/main_light/brightness and payload b'50'
          Light device brightness is correct (Content 50 and Type is <class 'int'>).
Success
       Result (Light device brightness): 50 (<class 'int'>)
```

```
Expectation (Light device brightness): result = 50 (<class 'int'>)
Success
          Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Virtual device brightness): 50 (<class 'int'>)
       Expectation (Virtual device brightness): result = 50 (<class 'int'>)
Info
      Changing light device brightness to '65'
       Sending message with topic zigbee/ffw/julian/main_light and payload {"state": "on",
       → "brightness": 165.0, "color_temp": 352.0}
       Received message with topic zigbee/ffw/julian/main_light and payload b'{"state":
       → "on", "brightness": 165.0, "color_temp": 352.0}'
       Received message with topic videv/ffw/julian/main_light/brightness and payload b'65'
Success
         Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
         Light device brightness is correct (Content 65 and Type is <class 'int'>).
Success
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/ffw/julian/main_light/brightness/set and payload 50
       Received message with topic zigbee/ffw/julian/main_light/set and payload

    b'{"brightness": 128}'

       Sending message with topic zigbee/ffw/julian/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffw/julian/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffw/julian/main_light/brightness and payload b'50'
         Light device brightness is correct (Content 50 and Type is <class 'int'>).
Success
       Result (Light device brightness): 50 (<class 'int'>)
       Expectation (Light device brightness): result = 50 (<class 'int'>)
Info
      Resetting precondition (Power off)
       Sending message with topic shellies/ffw/julian/main_light/relay/0 and payload off
       Received message with topic shellies/ffw/julian/main_light/relay/0 and payload b'off'
       Received message with topic videv/ffw/julian/main_light/state and payload b'false'
```

4.33 Color temperature test for device and virtual device: zigbee/ffw/julian/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (81)

Start-Time: 2023-02-15 07:14:03,141 Finished-Time: 2023-02-15 07:14:04,956

Time-Consumption 1.815s

Testresults:

Info	Setting preconditions (Power on)	
------	----------------------------------	--

Success Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).

Info Changing light device color temperature to '5'

Success Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).

Success Light device brightness is correct (Content 8 and Type is <class 'int'>).

Info Changing virtual device color temperature to '5'

Success Light device brightness is correct (Content 5 and Type is <class 'int'>).

Success Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).

Info Changing light device color temperature to '5'

Success Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).

Success Light device brightness is correct (Content 8 and Type is <class 'int'>).

Info Changing virtual device color temperature to '5'

Success Light device brightness is correct (Content 5 and Type is <class 'int'>).

Info Resetting precondition (Power off)

Testdetails

Info Setting preconditions (Power on)

Sending message with topic shellies/ffw/julian/main_light/relay/0 and payload on

Sending message with topic zigbee/ffw/julian/main_light and payload {"state": "on", $\frac{1}{2}$

→ "brightness": 127.0, "color_temp": 352.0}

Received message with topic shellies/ffw/julian/main_light/relay/0 and payload b'on'

Received message with topic zigbee/ffw/julian/main_light and payload b'{"state":

→ "on", "brightness": 127.0, "color_temp": 352.0}'

Received message with topic videv/ffw/julian/main_light/state and payload b'true'

Success Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).

Result (Virtual device color temperature): 5 (<class 'int'>)

Expectation (Virtual device color temperature): result = 5 (<class 'int'>)

Info Changing light device color temperature to '5'

Sending message with topic zigbee/ffw/julian/main_light and payload {"state": "on",

 \rightarrow "brightness": 127.0, "color_temp": 413.0}

```
Received message with topic zigbee/ffw/julian/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 413.0}'
       Received message with topic videv/ffw/julian/main_light/color_temp and payload b'8'
          Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
Success
       Result (Virtual device color temperature): 8 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
Success
          Light device brightness is correct (Content 8 and Type is <class 'int'>).
       Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
Info
      Changing virtual device color temperature to '5'
       Sending message with topic videv/ffw/julian/main_light/color_temp/set and payload 5
       Received message with topic zigbee/ffw/julian/main_light/set and payload
       \rightarrow b'{"color_temp": 352}'
       Sending message with topic zigbee/ffw/julian/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffw/julian/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffw/julian/main_light/color_temp and payload b'5'
          Light device brightness is correct (Content 5 and Type is <class 'int'>).
Success
       Result (Light device brightness): 5 (<class 'int'>)
       Expectation (Light device brightness): result = 5 (<class 'int'>)
Success
          Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).
       Result (Virtual device color temperature): 5 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 5 (<class 'int'>)
Info
      Changing light device color temperature to '5'
       Sending message with topic zigbee/ffw/julian/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 413.0}
       Received message with topic zigbee/ffw/julian/main_light and payload b'{"state":
          "on", "brightness": 127.0, "color_temp": 413.0}'
       Received message with topic videv/ffw/julian/main_light/color_temp and payload b'8'
          Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
Success
       Result (Virtual device color temperature): 8 (<class 'int'>)
```

```
Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
         Light device brightness is correct (Content 8 and Type is <class 'int'>).
Success
       Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
Info
      Changing virtual device color temperature to '5'
       Sending message with topic videv/ffw/julian/main_light/color_temp/set and payload 5
       Received message with topic zigbee/ffw/julian/main_light/set and payload

    b'{"color_temp": 352}'

       Sending message with topic zigbee/ffw/julian/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffw/julian/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffw/julian/main_light/color_temp and payload b'5'
Success
         Light device brightness is correct (Content 5 and Type is <class 'int'>).
       Result (Light device brightness): 5 (<class 'int'>)
       Expectation (Light device brightness): result = 5 (<class 'int'>)
      Resetting precondition (Power off)
Info
       Sending message with topic shellies/ffw/julian/main_light/relay/0 and payload off
       Received message with topic shellies/ffw/julian/main_light/relay/0 and payload b'off'
       Received message with topic videv/ffw/julian/main_light/state and payload b'false'
```

4.34 Power On/Off test for device and virtual device: shellies/ffw/julian/main_light

Testsummary

This test was passed with the state: Success.

Testresults:	
Time-Consumption	1.209s
Finished-Time:	2023-02-15 07:14:06,165
Start-Time:	2023-02-15 07:14:04,956
Caller:	/home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Testresults:	
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>

Success Virtual device state is correct (Content False and Type is <class 'bool'>). Info Changing switching device state to 'True' **Success** Virtual device state is correct (Content True and Type is <class 'bool'>). Success Switching device state is correct (Content True and Type is <class 'bool'>). Info Changing virtual device state to 'False' Success Switching device state is correct (Content False and Type is <class 'bool'>). **Testdetails** Success Virtual device state is correct (Content False and Type is <class 'bool'>). Result (Virtual device state): False (<class 'bool'>) Expectation (Virtual device state): result = False (<class 'bool'>) Info Changing switching device state to 'True' Sending message with topic shellies/ffw/julian/main_light/relay/0 and payload on Sending message with topic zigbee/ffw/julian/main_light and payload {"state": "on", → "brightness": 127.0, "color_temp": 352.0} Received message with topic shellies/ffw/julian/main_light/relay/0 and payload b'on' Received message with topic zigbee/ffw/julian/main_light and payload b'{"state": → "on", "brightness": 127.0, "color_temp": 352.0}' Received message with topic videv/ffw/julian/main_light/state and payload b'true' Virtual device state is correct (Content True and Type is <class 'bool'>). Success Result (Virtual device state): True (<class 'bool'>) Expectation (Virtual device state): result = True (<class 'bool'>) Success Switching device state is correct (Content True and Type is <class 'bool'>). Result (Switching device state): True (<class 'bool'>) Expectation (Switching device state): result = True (<class 'bool'>) Info Changing virtual device state to 'False' Sending message with topic videv/ffw/julian/main_light/state/set and payload false Received message with topic shellies/ffw/julian/main_light/relay/0/command and → payload b'off' Sending message with topic shellies/ffw/julian/main_light/relay/O and payload off Received message with topic shellies/ffw/julian/main_light/relay/0 and payload b'off' Received message with topic videv/ffw/julian/main_light/state and payload b'false'

Switching device state is correct (Content False and Type is <class 'bool'>).

Result (Switching device state): False (<class 'bool'>)

Success

```
Expectation (Switching device state): result = False (<class 'bool'>)
Success
          Virtual device state is correct (Content False and Type is <class 'bool'>).
      Result (Virtual device state): False (<class 'bool'>)
      Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
      Sending message with topic shellies/ffw/julian/main_light/relay/0 and payload on
      Sending message with topic zigbee/ffw/julian/main_light and payload {"state": "on",
          "brightness": 127.0, "color_temp": 352.0}
      Received message with topic shellies/ffw/julian/main_light/relay/0 and payload b'on'
      Received message with topic zigbee/ffw/julian/main_light and payload b'{"state":
       Received message with topic videv/ffw/julian/main_light/state and payload b'true'
         Virtual device state is correct (Content True and Type is <class 'bool'>).
Success
      Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
         Switching device state is correct (Content True and Type is <class 'bool'>).
      Result (Switching device state): True (<class 'bool'>)
      Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
      Sending message with topic videv/ffw/julian/main_light/state/set and payload false
      Received message with topic shellies/ffw/julian/main_light/relay/0/command and
       → payload b'off'
      Sending message with topic shellies/ffw/julian/main_light/relay/0 and payload off
      Received message with topic shellies/ffw/julian/main_light/relay/0 and payload b'off'
      Received message with topic videv/ffw/julian/main_light/state and payload b'false'
Success
         Switching device state is correct (Content False and Type is <class 'bool'>).
      Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
```

4.35 Brightness test for device and virtual device: zigbee/ffw/livingroom/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (50)

Start-Time: 2023-02-15 07:14:06,166 Finished-Time: 2023-02-15 07:14:07,980

Time-Consumption 1.814s

_			
Tac	tro	CII	Itc:

Info Setting preconditions (Power on)

Success Virtual device brightness is correct (Content 50 and Type is <class 'int'>).

Info Changing light device brightness to '65'

Success Virtual device brightness is correct (Content 65 and Type is <class 'int'>).

Success Light device brightness is correct (Content 65 and Type is <class 'int'>).

Info Changing virtual device brightness to '50'

Success Light device brightness is correct (Content 50 and Type is <class 'int'>).

Success Virtual device brightness is correct (Content 50 and Type is <class 'int'>).

Info Changing light device brightness to '65'

Success Virtual device brightness is correct (Content 65 and Type is <class 'int'>).

Success Light device brightness is correct (Content 65 and Type is <class 'int'>).

Info Changing virtual device brightness to '50'

Success Light device brightness is correct (Content 50 and Type is <class 'int'>).

Info Resetting precondition (Power off)

Testdetails

Info Setting preconditions (Power on)

Sending message with topic shellies/ffw/livingroom/main_light/relay/0 and payload on

Sending message with topic zigbee/ffw/livingroom/main_light and payload {"state":

→ "on", "brightness": 127.0, "color_temp": 352.0}

Received message with topic shellies/ffw/livingroom/main_light/relay/0 and payload b'on'

Received message with topic zigbee/ffw/livingroom/main_light and payload b'{"state": }

 \hookrightarrow "on", "brightness": 127.0, "color_temp": 352.0}'

Received message with topic videv/ffw/livingroom/main_light/state and payload b'true'

Received message with topic videv/ffw/livingroom/main_light/brightness and payload \rightarrow b'50'

Received message with topic videv/ffw/livingroom/main_light/color_temp and payload

b'5'

Success Virtual device brightness is correct (Content 50 and Type is <class 'int'>).

Result (Virtual device brightness): 50 (<class 'int'>)

Expectation (Virtual device brightness): result = 50 (<class 'int'>)

Info Changing light device brightness to '65'

Sending message with topic zigbee/ffw/livingroom/main_light and payload {"state":

→ "on", "brightness": 165.0, "color_temp": 352.0}

```
Received message with topic zigbee/ffw/livingroom/main_light and payload b'{"state":
       Received message with topic videv/ffw/livingroom/main_light/brightness and payload
       → b'65'
Success
         Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
      Result (Virtual device brightness): 65 (<class 'int'>)
      Expectation (Virtual device brightness): result = 65 (<class 'int'>)
         Light device brightness is correct (Content 65 and Type is <class 'int'>).
Success
      Result (Light device brightness): 65 (<class 'int'>)
      Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
      Sending message with topic videv/ffw/livingroom/main_light/brightness/set and payload
      Received message with topic zigbee/ffw/livingroom/main_light/set and payload

    b'{"brightness": 128}'

      Sending message with topic zigbee/ffw/livingroom/main_light and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/ffw/livingroom/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic videv/ffw/livingroom/main_light/brightness and payload

→ b'50'

Success
         Light device brightness is correct (Content 50 and Type is <class 'int'>).
      Result (Light device brightness): 50 (<class 'int'>)
      Expectation (Light device brightness): result = 50 (<class 'int'>)
Success
         Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
      Result (Virtual device brightness): 50 (<class 'int'>)
      Expectation (Virtual device brightness): result = 50 (<class 'int'>)
Info
      Changing light device brightness to '65'
      Sending message with topic zigbee/ffw/livingroom/main_light and payload {"state":
          "on", "brightness": 165.0, "color_temp": 352.0}
      Received message with topic zigbee/ffw/livingroom/main_light and payload b'{"state":
           "on", "brightness": 165.0, "color_temp": 352.0}'
      Received message with topic videv/ffw/livingroom/main_light/brightness and payload
       → b'65'
```

```
Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
Success
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
Success
         Light device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/ffw/livingroom/main_light/brightness/set and payload
       Received message with topic zigbee/ffw/livingroom/main_light/set and payload

    b'{"brightness": 128}'

       Sending message with topic zigbee/ffw/livingroom/main_light and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffw/livingroom/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffw/livingroom/main_light/brightness and payload
         Light device brightness is correct (Content 50 and Type is <class 'int'>).
Success
       Result (Light device brightness): 50 (<class 'int'>)
       Expectation (Light device brightness): result = 50 (<class 'int'>)
Info
      Resetting precondition (Power off)
       Sending message with topic shellies/ffw/livingroom/main_light/relay/0 and payload off
       Received message with topic shellies/ffw/livingroom/main_light/relay/0 and payload
       → b'off'
       Received message with topic videv/ffw/livingroom/main_light/state and payload b'false'
```

4.36 Color temperature test for device and virtual device: zigbee/ffw/livingroom/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (81)

Start-Time: 2023-02-15 07:14:07,980 Finished-Time: 2023-02-15 07:14:09,794

T:	_		1 010
I ime-	Consum	ption	1.813s

Testresults:	
Info	Setting preconditions (Power on)
Success	Virtual device color temperature is correct (Content 5 and Type is <class 'int'="">).</class>
Info	Changing light device color temperature to '5'
Success	Virtual device color temperature is correct (Content 8 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 8 and Type is <class 'int'="">).</class>
Info	Changing virtual device color temperature to '5'
Success	Light device brightness is correct (Content 5 and Type is <class 'int'="">).</class>
Success	Virtual device color temperature is correct (Content 5 and Type is <class 'int'="">).</class>
Info	Changing light device color temperature to '5'
Success	Virtual device color temperature is correct (Content 8 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 8 and Type is <class 'int'="">).</class>
Info	Changing virtual device color temperature to '5'
Success	Light device brightness is correct (Content 5 and Type is <class 'int'="">).</class>
Info	Resetting precondition (Power off)

Testdetails

b'8'

Testdetails	
Info	Setting preconditions (Power on)
	Sending message with topic shellies/ffw/livingroom/main_light/relay/0 and payload on
	Sending message with topic zigbee/ffw/livingroom/main_light and payload {"state": \hookrightarrow "on", "brightness": 127.0, "color_temp": 352.0}
	Received message with topic shellies/ffw/livingroom/main_light/relay/0 and payload $$
	Received message with topic zigbee/ffw/livingroom/main_light and payload b'{"state": on", "brightness": 127.0, "color_temp": 352.0}'
	Received message with topic videv/ffw/livingroom/main_light/state and payload b'true'
Success Virtual device color temperature is correct (Content 5 and Type is <class 'int'="">).</class>	
	Result (Virtual device color temperature): 5 (<class 'int'="">)</class>
	<pre>Expectation (Virtual device color temperature): result = 5 (<class 'int'="">)</class></pre>
Info	Changing light device color temperature to '5'
	Sending message with topic zigbee/ffw/livingroom/main_light and payload {"state":
	<pre></pre>
	Received message with topic zigbee/ffw/livingroom/main_light and payload b'{"state":

Received message with topic videv/ffw/livingroom/main_light/color_temp and payload

Success Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).

→ "on", "brightness": 127.0, "color_temp": 413.0}'

Result (Virtual device color temperature): 8 (<class 'int'>)

```
Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
Success
          Light device brightness is correct (Content 8 and Type is <class 'int'>).
       Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
Info
      Changing virtual device color temperature to '5'
       Sending message with topic videv/ffw/livingroom/main_light/color_temp/set and payload
       Received message with topic zigbee/ffw/livingroom/main_light/set and payload

    b'{"color_temp": 352}'

       Sending message with topic zigbee/ffw/livingroom/main_light and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffw/livingroom/main_light and payload b'{"state":
          "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffw/livingroom/main_light/color_temp and payload

→ b'5'

          Light device brightness is correct (Content 5 and Type is <class 'int'>).
Success
       Result (Light device brightness): 5 (<class 'int'>)
       Expectation (Light device brightness): result = 5 (<class 'int'>)
Success
          Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).
       Result (Virtual device color temperature): 5 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 5 (<class 'int'>)
Info
      Changing light device color temperature to '5'
       Sending message with topic zigbee/ffw/livingroom/main_light and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 413.0}
       Received message with topic zigbee/ffw/livingroom/main_light and payload b'{"state":
           "on", "brightness": 127.0, "color_temp": 413.0}'
       Received message with topic videv/ffw/livingroom/main_light/color_temp and payload

    b'8'

Success
          Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
       Result (Virtual device color temperature): 8 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
Success
          Light device brightness is correct (Content 8 and Type is <class 'int'>).
       Result (Light device brightness): 8 (<class 'int'>)
```

Info Resetting precondition (Power off)

Sending message with topic shellies/ffw/livingroom/main_light/relay/0 and payload off

Received message with topic shellies/ffw/livingroom/main_light/relay/0 and payload

b'off'

Received message with topic videv/ffw/livingroom/main_light/state and payload b'false'

4.37 Power On/Off test for device and virtual device: shellies/ffw/livingroom/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:14:09,794 Finished-Time: 2023-02-15 07:14:11,003

Time-Consumption 1.210s

Tes	٠		.1.	
IΔC	tro	261	ıIt	c.

Virtual device state is correct (Content False and Type is <class 'bool'>). Success Info Changing switching device state to 'True' Virtual device state is correct (Content True and Type is <class 'bool'>). Success Success Switching device state is correct (Content True and Type is <class 'bool'>). Info Changing virtual device state to 'False' Success Switching device state is correct (Content False and Type is <class 'bool'>). Success Virtual device state is correct (Content False and Type is <class 'bool'>). Info Changing switching device state to 'True'

Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>

```
Testdetails
 Success
           Virtual device state is correct (Content False and Type is <class 'bool'>).
        Result (Virtual device state): False (<class 'bool'>)
        Expectation (Virtual device state): result = False (<class 'bool'>)
 Info
        Changing switching device state to 'True'
        Sending message with topic shellies/ffw/livingroom/main_light/relay/0 and payload on
        Sending message with topic zigbee/ffw/livingroom/main_light and payload {"state":
        → "on", "brightness": 127.0, "color_temp": 352.0}
        Received message with topic shellies/ffw/livingroom/main_light/relay/0 and payload
        \hookrightarrow b'on'
        Received message with topic zigbee/ffw/livingroom/main_light and payload b'{"state":
            "on", "brightness": 127.0, "color_temp": 352.0}'
        Received message with topic videv/ffw/livingroom/main_light/state and payload b'true'
 Success
           Virtual device state is correct (Content True and Type is <class 'bool'>).
        Result (Virtual device state): True (<class 'bool'>)
        Expectation (Virtual device state): result = True (<class 'bool'>)
 Success
           Switching device state is correct (Content True and Type is <class 'bool'>).
        Result (Switching device state): True (<class 'bool'>)
        Expectation (Switching device state): result = True (<class 'bool'>)
 Info
        Changing virtual device state to 'False'
        Sending message with topic videv/ffw/livingroom/main_light/state/set and payload false
        Received message with topic shellies/ffw/livingroom/main_light/relay/0/command and
        → payload b'off'
        Sending message with topic shellies/ffw/livingroom/main_light/relay/0 and payload off
        Received message with topic shellies/ffw/livingroom/main_light/relay/0 and payload
        \hookrightarrow b'off'
        Received message with topic videv/ffw/livingroom/main_light/state and payload b'false'
           Switching device state is correct (Content False and Type is <class 'bool'>).
 Success
```

Result (Switching device state): False (<class 'bool'>)

```
Expectation (Switching device state): result = False (<class 'bool'>)
Success
         Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic shellies/ffw/livingroom/main_light/relay/0 and payload on
       Sending message with topic zigbee/ffw/livingroom/main_light and payload {"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}
       Received message with topic shellies/ffw/livingroom/main_light/relay/0 and payload
       Received message with topic zigbee/ffw/livingroom/main_light and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffw/livingroom/main_light/state and payload b'true'
Success
         Virtual device state is correct (Content True and Type is <class 'bool'>).
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
         Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/ffw/livingroom/main_light/state/set and payload false
       Received message with topic shellies/ffw/livingroom/main_light/relay/0/command and

→ payload b'off'

       Sending message with topic shellies/ffw/livingroom/main_light/relay/0 and payload off
       Received message with topic shellies/ffw/livingroom/main_light/relay/0 and payload
       ⇔ b'off'
       Received message with topic videv/ffw/livingroom/main_light/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
```

4.38 Brightness test for device and virtual device: zigbee/ffw/sleep/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (50)
Start-Time: 2023-02-15 07:14:11,004
Finished-Time: 2023-02-15 07:14:12,817

Time-Consumption 1.814s

Test	roci	ılte
resi	resi	III.S:

Info	Setting preconditions (Power on)
Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Changing light device brightness to '65'
Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Info	Changing virtual device brightness to '50'
Success	Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Changing light device brightness to '65'
Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Info	Changing virtual device brightness to '50'
Success	Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>

Testdetails

Info

```
Info Setting preconditions (Power on)
```

Sending message with topic shellies/ffw/sleep/main_light/relay/0 and payload on

Sending message with topic zigbee/ffw/sleep/main_light and payload {"state": "on",

"brightness": 127.0, "color_temp": 352.0}

Received message with topic shellies/ffw/sleep/main_light/relay/0 and payload b'on'

Received message with topic zigbee/ffw/sleep/main_light and payload b'{"state": "on",

"brightness": 127.0, "color_temp": 352.0}'

Received message with topic videv/ffw/sleep/main_light/state and payload b'true'

Received message with topic videv/ffw/sleep/main_light/brightness and payload b'50'

Success Virtual device brightness is correct (Content 50 and Type is <class 'int'>).

Resetting precondition (Power off)

```
Result (Virtual device brightness): 50 (<class 'int'>)

Expectation (Virtual device brightness): result = 50 (<class 'int'>)
```

Info Changing light device brightness to '65'

```
Sending message with topic zigbee/ffw/sleep/main_light and payload {"state": "on",

"brightness": 165.0, "color_temp": 352.0}

Received message with topic zigbee/ffw/sleep/main_light and payload b'{"state": "on",

"brightness": 165.0, "color_temp": 352.0}'

Received message with topic videv/ffw/sleep/main_light/brightness and payload b'65'
```

```
Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
Success
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
Success
          Light device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/ffw/sleep/main_light/brightness/set and payload 50
       Received message with topic zigbee/ffw/sleep/main_light/set and payload

    b'{"brightness": 128}'

       Sending message with topic zigbee/ffw/sleep/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/ffw/sleep/main_light and payload b'{"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffw/sleep/main_light/brightness and payload b'50'
Success
          Light device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Light device brightness): 50 (<class 'int'>)
       Expectation (Light device brightness): result = 50 (<class 'int'>)
Success
          Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Virtual device brightness): 50 (<class 'int'>)
       Expectation (Virtual device brightness): result = 50 (<class 'int'>)
Info
      Changing light device brightness to '65'
       Sending message with topic zigbee/ffw/sleep/main_light and payload {"state": "on",
          "brightness": 165.0, "color_temp": 352.0}
       Received message with topic zigbee/ffw/sleep/main_light and payload b'{"state": "on",
           "brightness": 165.0, "color_temp": 352.0}'
       Received message with topic videv/ffw/sleep/main_light/brightness and payload b'65'
Success
          Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
```

Light device brightness is correct (Content 65 and Type is <class 'int'>). Success Result (Light device brightness): 65 (<class 'int'>) Expectation (Light device brightness): result = 65 (<class 'int'>) Info Changing virtual device brightness to '50' Sending message with topic videv/ffw/sleep/main_light/brightness/set and payload 50 Received message with topic zigbee/ffw/sleep/main_light/set and payload b'{"brightness": 128}' Sending message with topic zigbee/ffw/sleep/main_light and payload {"state": "on", → "brightness": 127.0, "color_temp": 352.0} Received message with topic zigbee/ffw/sleep/main_light and payload b'{"state": "on", "brightness": 127.0, "color_temp": 352.0}' Received message with topic videv/ffw/sleep/main_light/brightness and payload b'50' Light device brightness is correct (Content 50 and Type is <class 'int'>). Success Result (Light device brightness): 50 (<class 'int'>) Expectation (Light device brightness): result = 50 (<class 'int'>) Info Resetting precondition (Power off) Sending message with topic shellies/ffw/sleep/main_light/relay/0 and payload off Received message with topic shellies/ffw/sleep/main_light/relay/0 and payload b'off' Received message with topic videv/ffw/sleep/main_light/state and payload b'false'

4.39 Power On/Off test for device and virtual device: shellies/ffw/sleep/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:14:12,818 Finished-Time: 2023-02-15 07:14:14,029

Time-Consumption 1.211s

Testresults:

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Info Changing switching device state to 'True'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Info Changing virtual device state to 'False'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Success Virtual device state is correct (Content False and Type is <class 'bool'>). Info Changing switching device state to 'True' Success Virtual device state is correct (Content True and Type is <class 'bool'>). Success Switching device state is correct (Content True and Type is <class 'bool'>). Info Changing virtual device state to 'False' Success Switching device state is correct (Content False and Type is <class 'bool'>). **Testdetails** Virtual device state is correct (Content False and Type is <class 'bool'>). Success Result (Virtual device state): False (<class 'bool'>) Expectation (Virtual device state): result = False (<class 'bool'>) Info Changing switching device state to 'True' Sending message with topic shellies/ffw/sleep/main_light/relay/0 and payload on Sending message with topic zigbee/ffw/sleep/main_light and payload {"state": "on", "brightness": 127.0, "color_temp": 352.0} Received message with topic shellies/ffw/sleep/main_light/relay/0 and payload b'on' Received message with topic zigbee/ffw/sleep/main_light and payload b'{"state": "on", → "brightness": 127.0, "color_temp": 352.0}' Received message with topic videv/ffw/sleep/main_light/state and payload b'true' Virtual device state is correct (Content True and Type is <class 'bool'>). Success Result (Virtual device state): True (<class 'bool'>) Expectation (Virtual device state): result = True (<class 'bool'>) Success Switching device state is correct (Content True and Type is <class 'bool'>). Result (Switching device state): True (<class 'bool'>) Expectation (Switching device state): result = True (<class 'bool'>) Info Changing virtual device state to 'False' Sending message with topic videv/ffw/sleep/main_light/state/set and payload false Received message with topic shellies/ffw/sleep/main_light/relay/0/command and payload ⇔ b'off' Sending message with topic shellies/ffw/sleep/main_light/relay/0 and payload off Received message with topic shellies/ffw/sleep/main_light/relay/0 and payload b'off' Received message with topic videv/ffw/sleep/main_light/state and payload b'false'

Switching device state is correct (Content False and Type is <class 'bool'>).

Result (Switching device state): False (<class 'bool'>)

Success

```
Expectation (Switching device state): result = False (<class 'bool'>)
Success
          Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic shellies/ffw/sleep/main_light/relay/0 and payload on
       Sending message with topic zigbee/ffw/sleep/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic shellies/ffw/sleep/main_light/relay/0 and payload b'on'
       Received message with topic zigbee/ffw/sleep/main_light and payload b'{"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/ffw/sleep/main_light/state and payload b'true'
Success
          Virtual device state is correct (Content True and Type is <class 'bool'>).
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
          Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/ffw/sleep/main_light/state/set and payload false
       Received message with topic shellies/ffw/sleep/main_light/relay/0/command and payload
       \hookrightarrow b'off'
       Sending message with topic shellies/ffw/sleep/main_light/relay/0 and payload off
       Received message with topic shellies/ffw/sleep/main_light/relay/0 and payload b'off'
       Received message with topic videv/ffw/sleep/main_light/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
```

4.40 Power On/Off test for device and virtual device: my_apps/gfw/dirk/powerplug/output/1

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:14:14,030 Finished-Time: 2023-02-15 07:14:15,240

Time-Consumption 1.210s

Testresults:

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Info Changing switching device state to 'True'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Info Changing virtual device state to 'False'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Info Changing switching device state to 'True'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Info Changing virtual device state to 'False'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Testdetails

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Result (Virtual device state): False (<class 'bool'>)

Expectation (Virtual device state): result = False (<class 'bool'>)

Info Changing switching device state to 'True'

Sending message with topic my_apps/gfw/dirk/powerplug/output/1 and payload true

Received message with topic my_apps/gfw/dirk/powerplug/output/1 and payload b'true'

Received message with topic videv/gfw/dirk/amplifier/state and payload b'true'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Result (Virtual device state): True (<class 'bool'>)

Expectation (Virtual device state): result = True (<class 'bool'>)

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Result (Switching device state): True (<class 'bool'>)

Expectation (Switching device state): result = True (<class 'bool'>)

Info Changing virtual device state to 'False'

Sending message with topic videv/gfw/dirk/amplifier/state/set and payload false Received message with topic my_apps/gfw/dirk/powerplug/output/1/set and payload b'false'

Sending message with topic my_apps/gfw/dirk/powerplug/output/1 and payload false Received message with topic my_apps/gfw/dirk/powerplug/output/1 and payload b'false' Received message with topic videv/gfw/dirk/amplifier/state and payload b'false'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

```
Result (Switching device state): False (<class 'bool'>)

Expectation (Switching device state): result = False (<class 'bool'>)
```

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

```
Result (Virtual device state): False (<class 'bool'>)
Expectation (Virtual device state): result = False (<class 'bool'>)
```

Info Changing switching device state to 'True'

Sending message with topic my_apps/gfw/dirk/powerplug/output/1 and payload true Received message with topic my_apps/gfw/dirk/powerplug/output/1 and payload b'true' Received message with topic videv/gfw/dirk/amplifier/state and payload b'true'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

```
Result (Virtual device state): True (<class 'bool'>)
Expectation (Virtual device state): result = True (<class 'bool'>)
```

Success Switching device state is correct (Content True and Type is <class 'bool'>).

```
Result (Switching device state): True (<class 'bool'>)

Expectation (Switching device state): result = True (<class 'bool'>)
```

Info Changing virtual device state to 'False'

Sending message with topic videv/gfw/dirk/amplifier/state/set and payload false Received message with topic my_apps/gfw/dirk/powerplug/output/1/set and payload b'false'

Sending message with topic my_apps/gfw/dirk/powerplug/output/1 and payload false
Received message with topic my_apps/gfw/dirk/powerplug/output/1 and payload b'false'
Received message with topic videv/gfw/dirk/amplifier/state and payload b'false'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

```
Result (Switching device state): False (<class 'bool'>)

Expectation (Switching device state): result = False (<class 'bool'>)
```

4.41 Power On/Off test for device and virtual device: my_apps/gfw/dirk/powerplug/output/3

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:14:15,240 Finished-Time: 2023-02-15 07:14:16,448

Time-Consumption 1.207s

Testresults:

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Info Changing switching device state to 'True'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Info Changing virtual device state to 'False'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Info Changing switching device state to 'True'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Info Changing virtual device state to 'False'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Testdetails

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Result (Virtual device state): False (<class 'bool'>)
Expectation (Virtual device state): result = False (<class 'bool'>)

Info Changing switching device state to 'True'

Sending message with topic my_apps/gfw/dirk/powerplug/output/3 and payload true

Received message with topic my_apps/gfw/dirk/powerplug/output/3 and payload b'true'

Received message with topic my_apps/gfw/dirk/powerplug/output/1/set and payload

b'true'

Sending message with topic my_apps/gfw/dirk/powerplug/output/1 and payload true

Received message with topic videv/gfw/dirk/cd_player/state and payload b'true'

Received message with topic $my_apps/gfw/dirk/powerplug/output/1$ and payload b'true'

Received message with topic videv/gfw/dirk/amplifier/state and payload b'true'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Result (Virtual device state): True (<class 'bool'>)

Expectation (Virtual device state): result = True (<class 'bool'>)

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Result (Switching device state): True (<class 'bool'>)

Expectation (Switching device state): result = True (<class 'bool'>)

```
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/gfw/dirk/cd_player/state/set and payload false
       Received message with topic my_apps/gfw/dirk/powerplug/output/3/set and payload
       \hookrightarrow b'false'
       Sending message with topic my_apps/gfw/dirk/powerplug/output/3 and payload false
       Received message with topic my_apps/gfw/dirk/powerplug/output/3 and payload b'false'
       Received message with topic my_apps/gfw/dirk/powerplug/output/1/set and payload
       \hookrightarrow b'false'
       Sending message with topic my_apps/gfw/dirk/powerplug/output/1 and payload false
       Received message with topic videv/gfw/dirk/cd_player/state and payload b'false'
       Received message with topic my_apps/gfw/dirk/powerplug/output/1 and payload b'false'
       Received message with topic videv/gfw/dirk/amplifier/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
Success
          Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic my_apps/gfw/dirk/powerplug/output/3 and payload true
       Received message with topic my_apps/gfw/dirk/powerplug/output/3 and payload b'true'
       Received message with topic my_apps/gfw/dirk/powerplug/output/1/set and payload
       ⇔ b'true'
       Sending message with topic my_apps/gfw/dirk/powerplug/output/1 and payload true
       Received message with topic videv/gfw/dirk/cd_player/state and payload b'true'
       Received message with topic my_apps/gfw/dirk/powerplug/output/1 and payload b'true'
       Received message with topic videv/gfw/dirk/amplifier/state and payload b'true'
Success
          Virtual device state is correct (Content True and Type is <class 'bool'>).
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
          Switching device state is correct (Content True and Type is <class 'bool'>).
Success
       Result (Switching device state): True (<class 'bool'>)
```

<pre>Expectation (Switching device state): result = True (<class 'bool'="">)</class></pre>
Info Changing virtual device state to 'False'
Sending message with topic videv/gfw/dirk/cd_player/state/set and payload false
Received message with topic my_apps/gfw/dirk/powerplug/output/3/set and payload \hookrightarrow b'false'
Sending message with topic my_apps/gfw/dirk/powerplug/output/3 and payload false
Received message with topic my_apps/gfw/dirk/powerplug/output/3 and payload b'false'
Received message with topic my_apps/gfw/dirk/powerplug/output/1/set and payload b'false'
Sending message with topic my_apps/gfw/dirk/powerplug/output/1 and payload false
Received message with topic videv/gfw/dirk/cd_player/state and payload b'false'
Received message with topic my_apps/gfw/dirk/powerplug/output/1 and payload b'false'
Received message with topic videv/gfw/dirk/amplifier/state and payload b'false'
Success Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Result (Switching device state): False (<class 'bool'="">)</class>
<pre>Expectation (Switching device state): result = False (<class 'bool'="">)</class></pre>

4.42 Power On/Off synchronisation test: my_apps/gfw/dirk/powerplug/output/3

Testsummary

This test was passed with the state: Success.

Caller:	/home/dirk/my_repositories/smarthome/smart_brain_test/tests/synchronisation.py (24)
Start-Time:	2023-02-15 07:14:16,448
Finished-Time:	2023-02-15 07:14:17,354
${\sf Time\text{-}Consumption}$	0.906s
Testresults:	
Info	Setting preconditions for master device 'False'

0	Setting preconditions for muster device Tuise
Info	Changing master device state to 'True'
Success	Follower device (my_apps/gfw/dirk/powerplug/output/1) state is correct (Content True and
	Type is <class 'bool'="">).</class>
Info	Changing master device state to 'False'

Success Follower device (my_apps/gfw/dirk/powerplug/output/1) state is correct (Content False and

Type is <class 'bool'>).

Testdetails

Info	Setting preconditions for master device 'False'

Info Changing master device state to 'True'

Sending message with topic my_apps/gfw/dirk/powerplug/output/3 and payload true Received message with topic my_apps/gfw/dirk/powerplug/output/3 and payload b'true' Received message with topic my_apps/gfw/dirk/powerplug/output/1/set and payload Sending message with topic my_apps/gfw/dirk/powerplug/output/1 and payload true Received message with topic videv/gfw/dirk/cd_player/state and payload b'true' Received message with topic my_apps/gfw/dirk/powerplug/output/1 and payload b'true' Received message with topic videv/gfw/dirk/amplifier/state and payload b'true' Follower device (my_apps/gfw/dirk/powerplug/output/1) state is correct (Content True and Type is Success <class 'bool'>). Result (Follower device (my_apps/gfw/dirk/powerplug/output/1) state): True (<class Expectation (Follower device (my_apps/gfw/dirk/powerplug/output/1) state): result = True (<class 'bool'>) Info Changing master device state to 'False' Sending message with topic my_apps/gfw/dirk/powerplug/output/3 and payload false Received message with topic my_apps/gfw/dirk/powerplug/output/3 and payload b'false' Received message with topic my_apps/gfw/dirk/powerplug/output/1/set and payload \hookrightarrow b'false' Sending message with topic my_apps/gfw/dirk/powerplug/output/1 and payload false Received message with topic videv/gfw/dirk/cd_player/state and payload b'false' Received message with topic my_apps/gfw/dirk/powerplug/output/1 and payload b'false' Received message with topic videv/gfw/dirk/amplifier/state and payload b'false' Follower device (my_apps/gfw/dirk/powerplug/output/1) state is correct (Content False and Type is Success <class 'bool'>). Result (Follower device (my_apps/gfw/dirk/powerplug/output/1) state): False (<class → 'bool'>) Expectation (Follower device (my_apps/gfw/dirk/powerplug/output/1) state): result =

4.43 Brightness test for device and virtual device: zigbee/gfw/dirk/desk_light

Testsummary

This test was passed with the state: Success.

→ False (<class 'bool'>)

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (50)

Start-Time: 2023-02-15 07:14:17,354 Finished-Time: 2023-02-15 07:14:19,168

Time-Consumption 1.814s

Testresults:

Info	Setting preconditions (Power on)		
Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>		
Info	Changing light device brightness to '65'		
Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>		
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>		
Info	Changing virtual device brightness to '50'		
Success	Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>		
Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>		
Info	Changing light device brightness to '65'		
Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>		
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>		
Info	Changing virtual device brightness to '50'		
Success	Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>		
Info	Resetting precondition (Power off)		

Testdetails

```
Info
      Setting preconditions (Power on)
      Sending message with topic my_apps/gfw/dirk/powerplug/output/2 and payload true
      Sending message with topic zigbee/gfw/dirk/desk_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
      Received message with topic my_apps/gfw/dirk/powerplug/output/2 and payload b'true'
      Received message with topic zigbee/gfw/dirk/desk_light and payload b'{"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic videv/gfw/dirk/desk_light/state and payload b'true'
      Received message with topic videv/gfw/dirk/desk_light/brightness and payload b'50'
      Received message with topic videv/gfw/dirk/desk_light/color_temp and payload b'5'
Success
         Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
      Result (Virtual device brightness): 50 (<class 'int'>)
      Expectation (Virtual device brightness): result = 50 (<class 'int'>)
```

Info Changing light device brightness to '65'

```
Sending message with topic zigbee/gfw/dirk/desk_light and payload {"state": "on",
→ "brightness": 165.0, "color_temp": 352.0}
Received message with topic zigbee/gfw/dirk/desk_light and payload b'{"state": "on",
→ "brightness": 165.0, "color_temp": 352.0}'
Received message with topic videv/gfw/dirk/desk_light/brightness and payload b'65'
```

Success Virtual device brightness is correct (Content 65 and Type is <class 'int'>).

```
Result (Virtual device brightness): 65 (<class 'int'>)
```

```
Expectation (Virtual device brightness): result = 65 (<class 'int'>)
          Light device brightness is correct (Content 65 and Type is <class 'int'>).
Success
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
      Changing virtual device brightness to '50'
Info
       Sending message with topic videv/gfw/dirk/desk_light/brightness/set and payload 50
       Received message with topic zigbee/gfw/dirk/desk_light/set and payload

    b'{"brightness": 128}'

       Sending message with topic zigbee/gfw/dirk/desk_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/dirk/desk_light and payload b'{"state": "on",
           "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/dirk/desk_light/brightness and payload b'50'
Success
          Light device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Light device brightness): 50 (<class 'int'>)
       Expectation (Light device brightness): result = 50 (<class 'int'>)
Success
          Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Virtual device brightness): 50 (<class 'int'>)
       Expectation (Virtual device brightness): result = 50 (<class 'int'>)
Info
      Changing light device brightness to '65'
       Sending message with topic zigbee/gfw/dirk/desk_light and payload {"state": "on",
          "brightness": 165.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/dirk/desk_light and payload b'{"state": "on",
           "brightness": 165.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/dirk/desk_light/brightness and payload b'65'
          Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
Success
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
Success
          Light device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
```

Info Changing virtual device brightness to '50'
Sending message with topic videv/gfw/dirk/desk_light/brightness/set and payload 50
Received message with topic zigbee/gfw/dirk/desk_light/set and payload
Sending message with topic zigbee/gfw/dirk/desk_light and payload {"state": "on",
Received message with topic zigbee/gfw/dirk/desk_light and payload b'{"state": "on",
Received message with topic videv/gfw/dirk/desk_light/brightness and payload b'50'
Success Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Result (Light device brightness): 50 (<class 'int'="">)</class>
<pre>Expectation (Light device brightness): result = 50 (<class 'int'="">)</class></pre>
Info Resetting precondition (Power off)
Sending message with topic my_apps/gfw/dirk/powerplug/output/2 and payload false
Received message with topic my_apps/gfw/dirk/powerplug/output/2 and payload b'false'
Received message with topic videv/gfw/dirk/desk_light/state and payload b'false'

4.44 Color temperature test for device and virtual device: zigbee/gfw/dirk/desk_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (81)

Start-Time: 2023-02-15 07:14:19,169 Finished-Time: 2023-02-15 07:14:20,983

Time-Consumption 1.814s

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l'estresults:	
Info	Setting preconditions (Power on)
Success	Virtual device color temperature is correct (Content 5 and Type is <class 'int'="">).</class>
Info	Changing light device color temperature to '5'
Success	Virtual device color temperature is correct (Content 8 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 8 and Type is <class 'int'="">).</class>
Info	Changing virtual device color temperature to '5'
Success	Light device brightness is correct (Content 5 and Type is <class 'int'="">).</class>
Success	Virtual device color temperature is correct (Content 5 and Type is <class 'int'="">).</class>
Info	Changing light device color temperature to '5'
Success	Virtual device color temperature is correct (Content 8 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 8 and Type is <class 'int'="">).</class>

Info Changing virtual device color temperature to '5'

Light device brightness is correct (Content 5 and Type is <class 'int'>). Success

Info Resetting precondition (Power off)

```
Testdetails
 Info
       Setting preconditions (Power on)
        Sending message with topic my_apps/gfw/dirk/powerplug/output/2 and payload true
        Sending message with topic zigbee/gfw/dirk/desk_light and payload {"state": "on",
        → "brightness": 127.0, "color_temp": 352.0}
        Received message with topic my_apps/gfw/dirk/powerplug/output/2 and payload b'true'
        Received message with topic zigbee/gfw/dirk/desk_light and payload b'{"state": "on",
            "brightness": 127.0, "color_temp": 352.0}'
        Received message with topic videv/gfw/dirk/desk_light/state and payload b'true'
           Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).
 Success
        Result (Virtual device color temperature): 5 (<class 'int'>)
        Expectation (Virtual device color temperature): result = 5 (<class 'int'>)
 Info
        Changing light device color temperature to '5'
        Sending message with topic zigbee/gfw/dirk/desk_light and payload {"state": "on",
        → "brightness": 127.0, "color_temp": 413.0}
        Received message with topic zigbee/gfw/dirk/desk_light and payload b'{"state": "on",
        → "brightness": 127.0, "color_temp": 413.0}'
        Received message with topic videv/gfw/dirk/desk_light/color_temp and payload b'8'
 Success
           Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
        Result (Virtual device color temperature): 8 (<class 'int'>)
        Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
           Light device brightness is correct (Content 8 and Type is <class 'int'>).
 Success
        Result (Light device brightness): 8 (<class 'int'>)
        Expectation (Light device brightness): result = 8 (<class 'int'>)
 Info
        Changing virtual device color temperature to '5'
        Sending message with topic videv/gfw/dirk/desk_light/color_temp/set and payload 5
        Received message with topic zigbee/gfw/dirk/desk_light/set and payload

    b'{"color_temp": 352}'
```

Sending message with topic zigbee/gfw/dirk/desk_light and payload {"state": "on",

→ "brightness": 127.0, "color_temp": 352.0}

```
Received message with topic zigbee/gfw/dirk/desk_light and payload b'{"state": "on",
           "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/dirk/desk_light/color_temp and payload b'5'
          Light device brightness is correct (Content 5 and Type is <class 'int'>).
Success
       Result (Light device brightness): 5 (<class 'int'>)
       Expectation (Light device brightness): result = 5 (<class 'int'>)
Success
          Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).
       Result (Virtual device color temperature): 5 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 5 (<class 'int'>)
Info
      Changing light device color temperature to '5'
       Sending message with topic zigbee/gfw/dirk/desk_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 413.0}
       Received message with topic zigbee/gfw/dirk/desk_light and payload b'{"state": "on",
          "brightness": 127.0, "color_temp": 413.0}'
       Received message with topic videv/gfw/dirk/desk_light/color_temp and payload b'8'
Success
          Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
       Result (Virtual device color temperature): 8 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
          Light device brightness is correct (Content 8 and Type is <class 'int'>).
Success
       Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
Info
      Changing virtual device color temperature to '5'
       Sending message with topic videv/gfw/dirk/desk_light/color_temp/set and payload 5
       Received message with topic zigbee/gfw/dirk/desk_light/set and payload
       \rightarrow b'{"color_temp": 352}'
       Sending message with topic zigbee/gfw/dirk/desk_light and payload {"state": "on",
          "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/dirk/desk_light and payload b'{"state": "on",
           "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/dirk/desk_light/color_temp and payload b'5'
          Light device brightness is correct (Content 5 and Type is <class 'int'>).
Success
       Result (Light device brightness): 5 (<class 'int'>)
```

	<pre>Expectation (Light device brightness): result = 5 (<class 'int'="">)</class></pre>
Info	Resetting precondition (Power off)
	Sending message with topic my_apps/gfw/dirk/powerplug/output/2 and payload false
	Received message with topic my_apps/gfw/dirk/powerplug/output/2 and payload b'false'
	Received message with topic videv/gfw/dirk/desk_light/state and payload b'false'

4.45 Power On/Off test for device and virtual device: my_apps/gfw/dirk/powerplug/ output/2

Testsummary

This test was passed with the state: Success.

Caller:	/home/dirk/my_repositories	$/smarthome/smart_brain_tes$	t/tests/light.py (27)
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Start-Time: 2023-02-15 07:14:20,984 Finished-Time: 2023-02-15 07:14:22,195

Time-Consumption 1.211s

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Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Changing switching device state to 'True'
Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Changing virtual device state to 'False'
Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Changing switching device state to 'True'
Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Changing virtual device state to 'False'
Switching device state is correct (Content False and Type is <class 'bool'="">).</class>

Testdetails Success Virtual device state is correct (Content False and Type is <class 'bool'>). Result (Virtual device state): False (<class 'bool'>) Expectation (Virtual device state): result = False (<class 'bool'>) Info Changing switching device state to 'True'

Sending message with topic $my_apps/gfw/dirk/powerplug/output/2$ and payload true Sending message with topic zigbee/gfw/dirk/desk_light and payload {"state": "on", "brightness": 127.0, "color_temp": 352.0} Received message with topic my_apps/gfw/dirk/powerplug/output/2 and payload b'true'

```
Received message with topic zigbee/gfw/dirk/desk_light and payload b'{"state": "on",

    "brightness": 127.0, "color_temp": 352.0}'

       Received message with topic videv/gfw/dirk/desk_light/state and payload b'true'
Success
          Virtual device state is correct (Content True and Type is <class 'bool'>).
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
          Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/gfw/dirk/desk_light/state/set and payload false
       Received message with topic my_apps/gfw/dirk/powerplug/output/2/set and payload
       ⇔ b'false'
       Sending message with topic my_apps/gfw/dirk/powerplug/output/2 and payload false
       Received message with topic my_apps/gfw/dirk/powerplug/output/2 and payload b'false'
       Received message with topic videv/gfw/dirk/desk_light/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
Success
          Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic my_apps/gfw/dirk/powerplug/output/2 and payload true
       Sending message with topic zigbee/gfw/dirk/desk_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic my_apps/gfw/dirk/powerplug/output/2 and payload b'true'
       Received message with topic zigbee/gfw/dirk/desk_light and payload b'{"state": "on",
           "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/dirk/desk_light/state and payload b'true'
          Virtual device state is correct (Content True and Type is <class 'bool'>).
Success
```

Result (Virtual device state): True (<class 'bool'>)

Expectation (Virtual device state): result = True (<class 'bool'>)

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Result (Switching device state): True (<class 'bool'>)

Expectation (Switching device state): result = True (<class 'bool'>)

Info Changing virtual device state to 'False'

Sending message with topic videv/gfw/dirk/desk_light/state/set and payload false

Received message with topic my_apps/gfw/dirk/powerplug/output/2/set and payload

b'false'

Sending message with topic my_apps/gfw/dirk/powerplug/output/2 and payload false

Received message with topic my_apps/gfw/dirk/powerplug/output/2 and payload b'false'

Received message with topic videv/gfw/dirk/desk_light/state and payload b'false'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Result (Switching device state): False (<class 'bool'>)

Expectation (Switching device state): result = False (<class 'bool'>)

4.46 Away mode test: zigbee/gfw/dirk/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (101)

Start-Time: 2023-02-15 07:14:22,196 Finished-Time: 2023-02-15 07:14:23,102

Time-Consumption 0.907s

Testresults:

Info Setting preconditions (Default setpoint)

Success Away mode is correct (Content False and Type is <class 'bool'>).

Info Activating away mode

Success Away mode is correct (Content True and Type is <class 'bool'>).

Success Temperature setpoint is correct (Content 20 and Type is <class 'int'>).

Info Deactivating away mode

Success Away mode is correct (Content False and Type is <class 'bool'>).

Success Temperature setpoint is correct (Content 25 and Type is <class 'int'>).

Testdetails

Info Setting preconditions (Default setpoint)

```
Sending message with topic videv/gfw/dirk/heating_valve/set_default_temperature/set
       \hookrightarrow and payload null
       Received message with topic videv/gfw/dirk/heating_valve/user_temperature_setpoint
       \rightarrow and payload b'25'
       Received message with topic zigbee/gfw/dirk/heating_valve/set and payload
       → b'{"current_heating_setpoint": 25}'
       Sending message with topic zigbee/gfw/dirk/heating_valve and payload
       → {"current_heating_setpoint": 25, "local_temperature": 20.7, "battery": 97}
       Received message with topic videv/gfw/dirk/heating_valve/valve_temperature_setpoint
       \hookrightarrow and payload b'25'
       Received message with topic zigbee/gfw/dirk/heating_valve and payload
       \rightarrow b'{"current_heating_setpoint": 25, "local_temperature": 20.7, "battery": 97}'
Success
          Away mode is correct (Content False and Type is <class 'bool'>).
       Result (Away mode): False (<class 'bool'>)
       Expectation (Away mode): result = False (<class 'bool'>)
Info
      Activating away mode
       Sending message with topic videv/gfw/dirk/heating_valve/away_mode/set and payload true
       Received message with topic zigbee/gfw/dirk/heating_valve/set and payload

    b'{"current_heating_setpoint": 20}'

       Sending message with topic zigbee/gfw/dirk/heating_valve and payload
       → {"current_heating_setpoint": 20, "local_temperature": 20.7, "battery": 97}
       Received message with topic videv/gfw/dirk/heating_valve/valve_temperature_setpoint
       \rightarrow and payload b'20'
       Received message with topic videv/gfw/dirk/heating_valve/away_mode and payload b'true'
       Received message with topic zigbee/gfw/dirk/heating_valve and payload
       → b'{"current_heating_setpoint": 20, "local_temperature": 20.7, "battery": 97}'
          Away mode is correct (Content True and Type is <class 'bool'>).
Success
       Result (Away mode): True (<class 'bool'>)
       Expectation (Away mode): result = True (<class 'bool'>)
Success
          Temperature setpoint is correct (Content 20 and Type is <class 'int'>).
       Result (Temperature setpoint): 20 (<class 'int'>)
       Expectation (Temperature setpoint): result = 20 (<class 'int'>)
Info
      Deactivating away mode
       Sending message with topic videv/gfw/dirk/heating_valve/away_mode/set and payload
       \hookrightarrow false
```

Received message with topic zigbee/gfw/dirk/heating_valve/set and payload b'{"current_heating_setpoint": 25}'

Sending message with topic zigbee/gfw/dirk/heating_valve and payload

← {"current_heating_setpoint": 25, "local_temperature": 20.7, "battery": 97}

Received message with topic videv/gfw/dirk/heating_valve/valve_temperature_setpoint and payload b'25'

Received message with topic videv/gfw/dirk/heating_valve/away_mode and payload

Received message with topic zigbee/gfw/dirk/heating_valve and payload

b'{"current_heating_setpoint": 25, "local_temperature": 20.7, "battery": 97}'

Success Away mode is correct (Content False and Type is <class 'bool'>).

```
Result (Away mode): False (<class 'bool'>)
Expectation (Away mode): result = False (<class 'bool'>)
```

Success Temperature setpoint is correct (Content 25 and Type is <class 'int'>).

```
Result (Temperature setpoint): 25 (<class 'int'>)

Expectation (Temperature setpoint): result = 25 (<class 'int'>)
```

4.47 Boost mode test: zigbee/gfw/dirk/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (128)

Start-Time: 2023-02-15 07:14:23,103 Finished-Time: 2023-02-15 07:14:24,009

Time-Consumption 0.906s

Testresults:

Info Setting preconditions (Default setpoint)

Success Boost timer is correct (Content 0 and Type is <class 'int'>).

Info Activating boost mode

Success Boost timer is greater expectation (Content 899 and Type is <class 'int'>).

Info Setting postconditions (Default setpoint)

Success Boost timer is correct (Content 0 and Type is <class 'int'>).

Testdetails

Info Setting preconditions (Default setpoint)

Sending message with topic videv/gfw/dirk/heating_valve/set_default_temperature/set $_{\hookrightarrow}$ and payload null

```
Boost timer is correct (Content 0 and Type is <class 'int'>).
Success
       Result (Boost timer): 0 (<class 'int'>)
       Expectation (Boost timer): result = 0 (<class 'int'>)
Info
      Activating boost mode
       Sending message with topic videv/gfw/dirk/heating_valve/start_boost/set and payload
       Received message with topic videv/gfw/dirk/heating_valve/boost_timer and payload
       → b'900'
       Received message with topic zigbee/gfw/dirk/heating_valve/set and payload
       → b'{"current_heating_setpoint": 30}'
       Sending message with topic zigbee/gfw/dirk/heating_valve and payload
       _{\rightarrow} {"current_heating_setpoint": 30, "local_temperature": 20.7, "battery": 97}
       Received message with topic videv/gfw/dirk/heating_valve/valve_temperature_setpoint
       \rightarrow and payload b'30'
       Received message with topic zigbee/gfw/dirk/heating_valve and payload
       → b'{"current_heating_setpoint": 30, "local_temperature": 20.7, "battery": 97}'
       Received message with topic videv/gfw/dirk/heating_valve/boost_timer and payload
       → b'899'
          Boost timer is greater expectation (Content 899 and Type is <class 'int'>).
Success
       Result (Boost timer): 899 (<class 'int'>)
       Expectation (Boost timer): result > 0 (<class 'int'>)
Info
      Setting postconditions (Default setpoint)
       Sending message with topic videv/gfw/dirk/heating_valve/set_default_temperature/set
       \hookrightarrow and payload true
       Received message with topic videv/gfw/dirk/heating_valve/boost_timer and payload b'0'
       Received message with topic zigbee/gfw/dirk/heating_valve/set and payload
       → b'{"current_heating_setpoint": 25}'
       Sending message with topic zigbee/gfw/dirk/heating_valve and payload
       → {"current_heating_setpoint": 25, "local_temperature": 20.7, "battery": 97}
       Received message with topic videv/gfw/dirk/heating_valve/valve_temperature_setpoint
       \hookrightarrow and payload b'25'
       Received message with topic zigbee/gfw/dirk/heating_valve and payload
       → b'{"current_heating_setpoint": 25, "local_temperature": 20.7, "battery": 97}'
Success
          Boost timer is correct (Content 0 and Type is <class 'int'>).
       Result (Boost timer): 0 (<class 'int'>)
       Expectation (Boost timer): result = 0 (<class 'int'>)
```

4.48 Default temperature test for device and virtual device: zigbee/gfw/dirk/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (50)

Start-Time: 2023-02-15 07:14:24,010 Finished-Time: 2023-02-15 07:14:24,613

Time-Consumption 0.603s

Testresults:

Info Setting preconditions (Valve setpoint to 20.0)

Success Valve temperature setpoint (is not default temperature) is correct (Content True and Type is

<class 'bool'>).

Info Triggering set to default temperature (25.0)

Success Valve temperature setpoint is correct (Content 25 and Type is <class 'int'>).

Testdetails

Info Setting preconditions (Valve setpoint to 20.0)

Sending message with topic zigbee/gfw/dirk/heating_valve and payload

Received message with topic zigbee/gfw/dirk/heating_valve and payload

→ b'{"current_heating_setpoint": 20, "local_temperature": 20.7, "battery": 97}'

Received message with topic zigbee/gfw/dirk/heating_valve/set and payload

→ b'{"current_heating_setpoint": 20}'

Received message with topic videv/gfw/dirk/heating_valve/valve_temperature_setpoint

 \hookrightarrow and payload b'20'

Received message with topic videv/gfw/dirk/heating_valve/user_temperature_setpoint

 \hookrightarrow and payload b'20'

Success

Valve temperature setpoint (is not default temperature) is correct (Content True and Type is <class

'bool'>).

Result (Valve temperature setpoint (is not default temperature)): True (<class

→ 'bool'>)

Expectation (Valve temperature setpoint (is not default temperature)): result = True

Info Triggering set to default temperature (25.0)

 $Sending\ message\ with\ topic\ videv/gfw/dirk/heating_valve/set_default_temperature/set$

 \hookrightarrow and payload null

Received message with topic videv/gfw/dirk/heating_valve/user_temperature_setpoint

 $_{\hookrightarrow}$ and payload b'25'

Received message with topic zigbee/gfw/dirk/heating_valve/set and payload

→ b'{"current_heating_setpoint": 25}'

Sending message with topic zigbee/gfw/dirk/heating_valve and payload → {"current_heating_setpoint": 25, "local_temperature": 20.7, "battery": 97}

Received message with topic videv/gfw/dirk/heating_valve/valve_temperature_setpoint \hookrightarrow and payload b'25'

Received message with topic zigbee/gfw/dirk/heating_valve and payload → b'{"current_heating_setpoint": 25, "local_temperature": 20.7, "battery": 97}'

Success Valve temperature setpoint is correct (Content 25 and Type is <class 'int'>).

```
Result (Valve temperature setpoint): 25 (<class 'int'>)
Expectation (Valve temperature setpoint): result = 25 (<class 'int'>)
```

4.49 Summer mode test: zigbee/gfw/dirk/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (74)

Start-Time: 2023-02-15 07:14:24,613 Finished-Time: 2023-02-15 07:14:25,520

Time-Consumption 0.907s

Testresults:

Info	Setting preconditions (Default setpoint)
Success	Summer mode is correct (Content False and Type is < class 'bool'

Info Activating summer mode

Success Summer mode is correct (Content True and Type is <class 'bool'>). Success Temperature setpoint is correct (Content 5 and Type is <class 'int'>).

Info Deactivating summer mode

Success Summer mode is correct (Content False and Type is <class 'bool'>). Temperature setpoint is correct (Content 25 and Type is <class 'int'>). Success

Testdetails

Info Setting preconditions (Default setpoint)

> Sending message with topic videv/gfw/dirk/heating_valve/set_default_temperature/set \hookrightarrow and payload null

Summer mode is correct (Content False and Type is <class 'bool'>). Success

```
Result (Summer mode): False (<class 'bool'>)
Expectation (Summer mode): result = False (<class 'bool'>)
```

Info Activating summer mode

> Sending message with topic videv/gfw/dirk/heating_valve/summer_mode/set and payload

```
Received message with topic zigbee/gfw/dirk/heating_valve/set and payload
      → b'{"current_heating_setpoint": 5}'
      Sending message with topic zigbee/gfw/dirk/heating_valve and payload
      Received message with topic videv/gfw/dirk/heating_valve/valve_temperature_setpoint
      \hookrightarrow and payload b'5'
      Received message with topic videv/gfw/dirk/heating_valve/summer_mode and payload
      ⇔ b'true'
      Received message with topic zigbee/gfw/dirk/heating_valve and payload
      → b'{"current_heating_setpoint": 5, "local_temperature": 20.7, "battery": 97}'
Success
         Summer mode is correct (Content True and Type is <class 'bool'>).
      Result (Summer mode): True (<class 'bool'>)
      Expectation (Summer mode): result = True (<class 'bool'>)
Success
         Temperature setpoint is correct (Content 5 and Type is <class 'int'>).
      Result (Temperature setpoint): 5 (<class 'int'>)
      Expectation (Temperature setpoint): result = 5 (<class 'int'>)
Info
      Deactivating summer mode
      Sending message with topic videv/gfw/dirk/heating_valve/summer_mode/set and payload
      Received message with topic zigbee/gfw/dirk/heating_valve/set and payload
      → b'{"current_heating_setpoint": 25}'
      Sending message with topic zigbee/gfw/dirk/heating_valve and payload
      Received message with topic videv/gfw/dirk/heating_valve/valve_temperature_setpoint
      \hookrightarrow and payload b'25'
      Received message with topic videv/gfw/dirk/heating_valve/summer_mode and payload
      \hookrightarrow b'false'
      Received message with topic zigbee/gfw/dirk/heating_valve and payload
      → b'{"current_heating_setpoint": 25, "local_temperature": 20.7, "battery": 97}'
Success
         Summer mode is correct (Content False and Type is <class 'bool'>).
      Result (Summer mode): False (<class 'bool'>)
      Expectation (Summer mode): result = False (<class 'bool'>)
         Temperature setpoint is correct (Content 25 and Type is <class 'int'>).
Success
      Result (Temperature setpoint): 25 (<class 'int'>)
      Expectation (Temperature setpoint): result = 25 (<class 'int'>)
```

4.50 User temperature setpoint test for device and virtual device: zigbee/gfw/dirk/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (22)

Start-Time: 2023-02-15 07:14:25,521 Finished-Time: 2023-02-15 07:14:26,730

Time-Consumption 1.209s

Testresults:

Info	Changing valve temperature setpoint to '20.0'
Success	Virtual device valve temperature is correct (Content 20 and Type is <class 'int'="">).</class>
Success	Virtual device user temperature is correct (Content 20 and Type is <class 'int'="">).</class>
Info	Changing videv user temperature setpoint to '25.0'
Success	Valve device temperature setpoint is correct (Content 25 and Type is <class 'int'="">).</class>
Success	Virtual device valve temperature is correct (Content 25 and Type is <class 'int'="">).</class>
Info	Changing valve temperature setpoint to '20.0'
Success	Virtual device valve temperature is correct (Content 20 and Type is <class 'int'="">).</class>
Success	Virtual device user temperature is correct (Content 20 and Type is <class 'int'="">).</class>
Info	Changing videv user temperature setpoint to '25.0'
Success	Valve device temperature setpoint is correct (Content 25 and Type is <class 'int'="">).</class>
Success	Virtual device valve temperature is correct (Content 25 and Type is <class 'int'="">).</class>

Testdetails

Info Changing valve temperature setpoint to '20.0'

```
Sending message with topic zigbee/gfw/dirk/heating_valve and payload

Grade = Grade =
```

Guirent_heating_scopoint . 20, local_temperature . 20.7, battery . 5

Received message with topic zigbee/gfw/dirk/heating_valve and payload

b'{"current_heating_setpoint": 20, "local_temperature": 20.7, "battery": 97}'

Received message with topic zigbee/gfw/dirk/heating_valve/set and payload

b'{"current_heating_setpoint": 20}'

Received message with topic videv/gfw/dirk/heating_valve/valve_temperature_setpoint and payload b'20'

Received message with topic videv/gfw/dirk/heating_valve/user_temperature_setpoint and payload b'20'

Success Virtual device valve temperature is correct (Content 20 and Type is <class 'int'>).

```
Result (Virtual device valve temperature): 20 (<class 'int'>)

Expectation (Virtual device valve temperature): result = 20 (<class 'int'>)
```

Success Virtual device user temperature is correct (Content 20 and Type is <class 'int'>).

Result (Virtual device user temperature): 20 (<class 'int'>)

```
Expectation (Virtual device user temperature): result = 20 (<class 'int'>)
Info
      Changing videv user temperature setpoint to '25.0'
      Sending message with topic videv/gfw/dirk/heating_valve/user_temperature_setpoint/set
       \rightarrow and payload 25
      Received message with topic zigbee/gfw/dirk/heating_valve/set and payload
       → b'{"current_heating_setpoint": 25}'
      Sending message with topic zigbee/gfw/dirk/heating_valve and payload
          {"current_heating_setpoint": 25, "local_temperature": 20.7, "battery": 97}
      Received message with topic videv/gfw/dirk/heating_valve/valve_temperature_setpoint
       \hookrightarrow and payload b'25'
      Received message with topic zigbee/gfw/dirk/heating_valve and payload
       → b'{"current_heating_setpoint": 25, "local_temperature": 20.7, "battery": 97}'
      Received message with topic videv/gfw/dirk/heating_valve/user_temperature_setpoint
       \hookrightarrow and payload b'25'
Success
         Valve device temperature setpoint is correct (Content 25 and Type is <class 'int'>).
      Result (Valve device temperature setpoint): 25 (<class 'int'>)
      Expectation (Valve device temperature setpoint): result = 25 (<class 'int'>)
Success
         Virtual device valve temperature is correct (Content 25 and Type is <class 'int'>).
      Result (Virtual device valve temperature): 25 (<class 'int'>)
      Expectation (Virtual device valve temperature): result = 25 (<class 'int'>)
Info
      Changing valve temperature setpoint to '20.0'
      Sending message with topic zigbee/gfw/dirk/heating_valve and payload
       Received message with topic zigbee/gfw/dirk/heating_valve and payload
       → b'{"current_heating_setpoint": 20, "local_temperature": 20.7, "battery": 97}'
      Received message with topic zigbee/gfw/dirk/heating_valve/set and payload
       → b'{"current_heating_setpoint": 20}'
      Received message with topic videv/gfw/dirk/heating_valve/valve_temperature_setpoint
       \hookrightarrow and payload b'20'
      Received message with topic videv/gfw/dirk/heating_valve/user_temperature_setpoint
       \hookrightarrow and payload b'20'
         Virtual device valve temperature is correct (Content 20 and Type is <class 'int'>).
Success
      Result (Virtual device valve temperature): 20 (<class 'int'>)
      Expectation (Virtual device valve temperature): result = 20 (<class 'int'>)
```

```
Virtual device user temperature is correct (Content 20 and Type is <class 'int'>).
Success
       Result (Virtual device user temperature): 20 (<class 'int'>)
       Expectation (Virtual device user temperature): result = 20 (<class 'int'>)
Info
      Changing videv user temperature setpoint to '25.0'
       Sending message with topic videv/gfw/dirk/heating_valve/user_temperature_setpoint/set
       \hookrightarrow and payload 25
       Received message with topic zigbee/gfw/dirk/heating_valve/set and payload
           b'{"current_heating_setpoint": 25}'
       Sending message with topic zigbee/gfw/dirk/heating_valve and payload
           {"current_heating_setpoint": 25, "local_temperature": 20.7, "battery": 97}
       Received message with topic videv/gfw/dirk/heating_valve/valve_temperature_setpoint
       \hookrightarrow and payload b'25'
       Received message with topic videv/gfw/dirk/heating_valve/user_temperature_setpoint
       \hookrightarrow and payload b'25'
       Received message with topic zigbee/gfw/dirk/heating_valve and payload
       → b'{"current_heating_setpoint": 25, "local_temperature": 20.7, "battery": 97}'
Success
          Valve device temperature setpoint is correct (Content 25 and Type is <class 'int'>).
       Result (Valve device temperature setpoint): 25 (<class 'int'>)
       Expectation (Valve device temperature setpoint): result = 25 (<class 'int'>)
Success
          Virtual device valve temperature is correct (Content 25 and Type is <class 'int'>).
       Result (Virtual device valve temperature): 25 (<class 'int'>)
       Expectation (Virtual device valve temperature): result = 25 (<class 'int'>)
```

4.51 Brightness test for device and virtual device: zigbee/gfw/dirk/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (50)

Start-Time: 2023-02-15 07:14:26,730 Finished-Time: 2023-02-15 07:14:28,545

Time-Consumption 1.814s

Testresults:

Info Setting preconditions (Power on)

Success Virtual device brightness is correct (Content 50 and Type is <class 'int'>).

Info Changing light device brightness to '65'

Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Info	Changing virtual device brightness to '50'
Success	Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Changing light device brightness to '65'
Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Info	Changing virtual device brightness to '50'
Success	Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Resetting precondition (Power off)
Testdetail	s etting preconditions (Power on)
S	Sending message with topic shellies/gfw/dirk/main_light/relay/0 and payload on
\$	Sending message with topic zigbee/gfw/dirk/main_light and payload {"state": "on",
F	Received message with topic shellies/gfw/dirk/main_light/relay/0 and payload b'on'
	Received message with topic zigbee/gfw/dirk/main_light and payload b'{"state": "on",
F	Received message with topic videv/gfw/dirk/main_light/state and payload b'true'
F	Received message with topic videv/gfw/dirk/main_light/brightness and payload b'50'
F	Received message with topic videv/gfw/dirk/main_light/color_temp and payload b'5'
Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
F	Result (Virtual device brightness): 50 (<class 'int'="">)</class>
F	Expectation (Virtual device brightness): result = 50 (<class 'int'="">)</class>
Info C	hanging light device brightness to '65'
	Sending message with topic zigbee/gfw/dirk/main_light and payload {"state": "on",
	Received message with topic zigbee/gfw/dirk/main_light and payload b'{"state": "on", "brightness": 165.0, "color_temp": 352.0}'
F	Received message with topic videv/gfw/dirk/main_light/brightness and payload b'65'

Result (Light device brightness): 65 (<class 'int'>)

Virtual device brightness is correct (Content 65 and Type is <class 'int'>).

Expectation (Virtual device brightness): result = 65 (<class 'int'>)

Light device brightness is correct (Content 65 and Type is <class 'int'>).

Result (Virtual device brightness): 65 (<class 'int'>)

Success

Success

```
Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/gfw/dirk/main_light/brightness/set and payload 50
       Received message with topic zigbee/gfw/dirk/main_light/set and payload

    b'{"brightness": 128}'

       Sending message with topic zigbee/gfw/dirk/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/dirk/main_light and payload b'{"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/dirk/main_light/brightness and payload b'50'
Success
          Light device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Light device brightness): 50 (<class 'int'>)
       Expectation (Light device brightness): result = 50 (<class 'int'>)
Success
          Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Virtual device brightness): 50 (<class 'int'>)
       Expectation (Virtual device brightness): result = 50 (<class 'int'>)
Info
      Changing light device brightness to '65'
       Sending message with topic zigbee/gfw/dirk/main_light and payload {"state": "on",
       → "brightness": 165.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/dirk/main_light and payload b'{"state": "on",
       → "brightness": 165.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/dirk/main_light/brightness and payload b'65'
Success
          Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
Success
          Light device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/gfw/dirk/main_light/brightness/set and payload 50
       Received message with topic zigbee/gfw/dirk/main_light/set and payload

    b'{"brightness": 128}'
```

Sending message with topic zigbee/gfw/dirk/main_light and payload {"state": "on",

"brightness": 127.0, "color_temp": 352.0}

Received message with topic zigbee/gfw/dirk/main_light and payload b'{"state": "on",

"brightness": 127.0, "color_temp": 352.0}'

Received message with topic videv/gfw/dirk/main_light/brightness and payload b'50'

Success Light device brightness is correct (Content 50 and Type is <class 'int'>).

Result (Light device brightness): 50 (<class 'int'>)

Expectation (Light device brightness): result = 50 (<class 'int'>)

Info Resetting precondition (Power off)

Sending message with topic shellies/gfw/dirk/main_light/relay/0 and payload off
Received message with topic shellies/gfw/dirk/main_light/relay/0 and payload b'off'
Received message with topic videv/gfw/dirk/main_light/state and payload b'false'

4.52 Color temperature test for device and virtual device: zigbee/gfw/dirk/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (81)

Start-Time: 2023-02-15 07:14:28,545 Finished-Time: 2023-02-15 07:14:30,359

Time-Consumption 1.814s

Testresults:

Info

Success Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).

Info Changing light device color temperature to '5'

Success Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).

Success Light device brightness is correct (Content 8 and Type is <class 'int'>).

Info Changing virtual device color temperature to '5'

Setting preconditions (Power on)

Success Light device brightness is correct (Content 5 and Type is <class 'int'>).

Success Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).

Info Changing light device color temperature to '5'

Success Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).

Success Light device brightness is correct (Content 8 and Type is <class 'int'>).

Info Changing virtual device color temperature to '5'

Success Light device brightness is correct (Content 5 and Type is <class 'int'>).

Info Resetting precondition (Power off)

Testdetails

Info Setting preconditions (Power on)

```
Sending message with topic shellies/gfw/dirk/main_light/relay/0 and payload on
       Sending message with topic zigbee/gfw/dirk/main_light and payload {"state": "on",
       \hookrightarrow "brightness": 127.0, "color_temp": 352.0}
       Received message with topic shellies/gfw/dirk/main_light/relay/0 and payload b'on'
       Received message with topic zigbee/gfw/dirk/main_light and payload b'{"state": "on",
           "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/dirk/main_light/state and payload b'true'
Success
          Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).
       Result (Virtual device color temperature): 5 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 5 (<class 'int'>)
      Changing light device color temperature to '5'
Info
       Sending message with topic zigbee/gfw/dirk/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 413.0}
       Received message with topic zigbee/gfw/dirk/main_light and payload b'{"state": "on",
       → "brightness": 127.0, "color_temp": 413.0}'
       Received message with topic videv/gfw/dirk/main_light/color_temp and payload b'8'
Success
          Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
       Result (Virtual device color temperature): 8 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
          Light device brightness is correct (Content 8 and Type is <class 'int'>).
Success
       Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
Info
      Changing virtual device color temperature to '5'
       Sending message with topic videv/gfw/dirk/main_light/color_temp/set and payload 5
       Received message with topic zigbee/gfw/dirk/main_light/set and payload
       \rightarrow b'{"color_temp": 352}'
       Sending message with topic zigbee/gfw/dirk/main_light and payload {"state": "on",
           "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/dirk/main_light and payload b'{"state": "on",
          "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/dirk/main_light/color_temp and payload b'5'
          Light device brightness is correct (Content 5 and Type is <class 'int'>).
Success
```

Result (Light device brightness): 5 (<class 'int'>)

```
Expectation (Light device brightness): result = 5 (<class 'int'>)
Success
          Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).
       Result (Virtual device color temperature): 5 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 5 (<class 'int'>)
Info
      Changing light device color temperature to '5'
       Sending message with topic zigbee/gfw/dirk/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 413.0}
       Received message with topic zigbee/gfw/dirk/main_light and payload b'{"state": "on",

    "brightness": 127.0, "color_temp": 413.0}'

       Received message with topic videv/gfw/dirk/main_light/color_temp and payload b'8'
Success
          Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
       Result (Virtual device color temperature): 8 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
          Light device brightness is correct (Content 8 and Type is <class 'int'>).
Success
       Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
      Changing virtual device color temperature to '5'
Info
       Sending message with topic videv/gfw/dirk/main_light/color_temp/set and payload 5
       Received message with topic zigbee/gfw/dirk/main_light/set and payload
       \rightarrow b'{"color_temp": 352}'
       Sending message with topic zigbee/gfw/dirk/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/dirk/main_light and payload b'{"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/dirk/main_light/color_temp and payload b'5'
          Light device brightness is correct (Content 5 and Type is <class 'int'>).
Success
       Result (Light device brightness): 5 (<class 'int'>)
       Expectation (Light device brightness): result = 5 (<class 'int'>)
Info
      Resetting precondition (Power off)
       Sending message with topic shellies/gfw/dirk/main_light/relay/0 and payload off
       Received message with topic shellies/gfw/dirk/main_light/relay/0 and payload b'off'
       Received message with topic videv/gfw/dirk/main_light/state and payload b'false'
```

4.53 Power On/Off test for device and virtual device: shellies/gfw/dirk/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:14:30,360 Finished-Time: 2023-02-15 07:14:31,571

Time-Consumption 1.211s

Testresults:

Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'

Changing switching device state to 'True

Success Virtual device state is correct (Content True and Type is <class 'bool'>). Success Switching device state is correct (Content True and Type is <class 'bool'>).

Info Changing virtual device state to 'False'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Testdetails

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

```
Result (Virtual device state): False (<class 'bool'>)
Expectation (Virtual device state): result = False (<class 'bool'>)
```

Info Changing switching device state to 'True'

```
Sending message with topic shellies/gfw/dirk/main_light/relay/0 and payload on
Sending message with topic zigbee/gfw/dirk/main_light and payload {"state": "on",
→ "brightness": 127.0, "color_temp": 352.0}
Received message with topic shellies/gfw/dirk/main_light/relay/0 and payload b'on'
Received message with topic zigbee/gfw/dirk/main_light and payload b'{"state": "on",
→ "brightness": 127.0, "color_temp": 352.0}'
```

Received message with topic videv/gfw/dirk/main_light/state and payload b'true'

Virtual device state is correct (Content True and Type is <class 'bool'>). Success

```
Result (Virtual device state): True (<class 'bool'>)
Expectation (Virtual device state): result = True (<class 'bool'>)
```

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Result (Switching device state): True (<class 'bool'>)

```
Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/gfw/dirk/main_light/state/set and payload false
       Received message with topic shellies/gfw/dirk/main_light/relay/0/command and payload
       ⇔ b'off'
       Sending message with topic shellies/gfw/dirk/main_light/relay/0 and payload off
       Received message with topic shellies/gfw/dirk/main_light/relay/0 and payload b'off'
       Received message with topic videv/gfw/dirk/main_light/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
Success
         Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic shellies/gfw/dirk/main_light/relay/0 and payload on
       Sending message with topic zigbee/gfw/dirk/main_light and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic shellies/gfw/dirk/main_light/relay/0 and payload b'on'
       Received message with topic zigbee/gfw/dirk/main_light and payload b'{"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/dirk/main_light/state and payload b'true'
         Virtual device state is correct (Content True and Type is <class 'bool'>).
Success
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
          Switching device state is correct (Content True and Type is <class 'bool'>).
Success
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/gfw/dirk/main_light/state/set and payload false
       Received message with topic shellies/gfw/dirk/main_light/relay/0/command and payload
```

⇔ b'off'

Sending message with topic shellies/gfw/dirk/main_light/relay/0 and payload off
Received message with topic shellies/gfw/dirk/main_light/relay/0 and payload b'off'
Received message with topic videv/gfw/dirk/main_light/state and payload b'false'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Result (Switching device state): False (<class 'bool'>)

Expectation (Switching device state): result = False (<class 'bool'>)

4.54 Power On/Off test for device and virtual device: my_apps/gfw/dirk/powerplug/output/4

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:14:31,571 Finished-Time: 2023-02-15 07:14:32,782

Time-Consumption 1.211s

Testresults:

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Info Changing switching device state to 'True'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Info Changing virtual device state to 'False'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Info Changing switching device state to 'True'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Info Changing virtual device state to 'False'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Testdetails

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Result (Virtual device state): False (<class 'bool'>)

Expectation (Virtual device state): result = False (<class 'bool'>)

Info Changing switching device state to 'True'

Sending message with topic my_apps/gfw/dirk/powerplug/output/4 and payload true

Received message with topic my_apps/gfw/dirk/powerplug/output/4 and payload b'true'

Received message with topic videv/gfw/dirk/pc_dock/state and payload b'true'

```
Success
          Virtual device state is correct (Content True and Type is <class 'bool'>).
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
          Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/gfw/dirk/pc_dock/state/set and payload false
       Received message with topic my_apps/gfw/dirk/powerplug/output/4/set and payload
          b'false'
       Sending message with topic my_apps/gfw/dirk/powerplug/output/4 and payload false
       Received message with topic my_apps/gfw/dirk/powerplug/output/4 and payload b'false'
       Received message with topic videv/gfw/dirk/pc_dock/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
Success
          Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic my_apps/gfw/dirk/powerplug/output/4 and payload true
       Received message with topic my_apps/gfw/dirk/powerplug/output/4 and payload b'true'
       Received message with topic videv/gfw/dirk/pc_dock/state and payload b'true'
Success
          Virtual device state is correct (Content True and Type is <class 'bool'>).
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
          Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
```

Info	Changing virtual device state to 'False'
	Sending message with topic videv/gfw/dirk/pc_dock/state/set and payload false
	Received message with topic my_apps/gfw/dirk/powerplug/output/4/set and payload $$
	Sending message with topic my_apps/gfw/dirk/powerplug/output/4 and payload false
	Received message with topic my_apps/gfw/dirk/powerplug/output/4 and payload b'false'
	Received message with topic videv/gfw/dirk/pc_dock/state and payload b'false'
Succe	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
	Result (Switching device state): False (<class 'bool'="">)</class>
	<pre>Expectation (Switching device state): result = False (<class 'bool'="">)</class></pre>

Brightness test for device and virtual device: zigbee/gfw/floor/main_light_1 4.55

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (50)

Start-Time: 2023-02-15 07:14:32,783 Finished-Time: 2023-02-15 07:14:34,596

Time-Consumption 1.814s

		_	
Testi	resi	ılt	c.

Testresults:	
Info	Setting preconditions (Power on)
Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Changing light device brightness to '65'
Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Info	Changing virtual device brightness to '50'
Success	Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Success	Virtual device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Changing light device brightness to '65'
Success	Virtual device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Success	Light device brightness is correct (Content 65 and Type is <class 'int'="">).</class>
Info	Changing virtual device brightness to '50'
Success	Light device brightness is correct (Content 50 and Type is <class 'int'="">).</class>
Info	Resetting precondition (Power off)

Testdetails

Into	Setting	precondition	s (Power	on)
------	---------	--------------	----------	-----

Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload on

```
Received message with topic shellies/gfw/floor/main_light/relay/0 and payload b'on'
       Received message with topic zigbee/gfw/floor/main_light_1/get and payload b'{"state":
       Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/floor/main_light_2/get and payload b'{"state":
          ""}'
       Sending message with topic zigbee/gfw/floor/main_light_2 and payload {"state": "on",
           "brightness": 127.0, "color_temp": 352.0}
       Received message with topic videv/gfw/floor/main_light/state and payload b'true'
       Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/gfw/floor/main_light_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/floor/main_light/brightness and payload b'50'
       Received message with topic videv/gfw/floor/main_light/color_temp and payload b'5'
         Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
Success
       Result (Virtual device brightness): 50 (<class 'int'>)
       Expectation (Virtual device brightness): result = 50 (<class 'int'>)
Info
      Changing light device brightness to '65'
       Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
       → "brightness": 165.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       → "on", "brightness": 165.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/floor/main_light/brightness and payload b'65'
Success
          Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
Success
         Light device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/gfw/floor/main_light/brightness/set and payload 50
       Received message with topic zigbee/gfw/floor/main_light_1/set and payload

    b'{"brightness": 128}'
```

```
Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
          "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/floor/main_light_2/set and payload

    b'{"brightness": 128}'

       Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/floor/main_light/brightness and payload b'50'
Success
         Light device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Light device brightness): 50 (<class 'int'>)
       Expectation (Light device brightness): result = 50 (<class 'int'>)
Success
          Virtual device brightness is correct (Content 50 and Type is <class 'int'>).
       Result (Virtual device brightness): 50 (<class 'int'>)
       Expectation (Virtual device brightness): result = 50 (<class 'int'>)
Info
      Changing light device brightness to '65'
       Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
       → "brightness": 165.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       → "on", "brightness": 165.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/floor/main_light/brightness and payload b'65'
         Virtual device brightness is correct (Content 65 and Type is <class 'int'>).
Success
       Result (Virtual device brightness): 65 (<class 'int'>)
       Expectation (Virtual device brightness): result = 65 (<class 'int'>)
Success
         Light device brightness is correct (Content 65 and Type is <class 'int'>).
       Result (Light device brightness): 65 (<class 'int'>)
       Expectation (Light device brightness): result = 65 (<class 'int'>)
Info
      Changing virtual device brightness to '50'
       Sending message with topic videv/gfw/floor/main_light/brightness/set and payload 50
       Received message with topic zigbee/gfw/floor/main_light_1/set and payload

    b'{"brightness": 128}'

       Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/floor/main_light_2/set and payload

    b'{"brightness": 128}'
```

Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":

on", "brightness": 127.0, "color_temp": 352.0}'

Received message with topic videv/gfw/floor/main_light/brightness and payload b'50'

Success Light device brightness is correct (Content 50 and Type is <class 'int'>).

Result (Light device brightness): 50 (<class 'int'>)

Expectation (Light device brightness): result = 50 (<class 'int'>)

Info Resetting precondition (Power off)

Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload off
Received message with topic shellies/gfw/floor/main_light/relay/0 and payload b'off'
Received message with topic videv/gfw/floor/main_light/state and payload b'false'

4.56 Color temperature test for device and virtual device: zigbee/gfw/floor/main_light_1

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (81)

Start-Time: 2023-02-15 07:14:34,597 Finished-Time: 2023-02-15 07:14:36,410

Time-Consumption 1.813s

Testresults:

Info Setting preconditions (Power on)

Success Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).

Info Changing light device color temperature to '5'

Success Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).

Success Light device brightness is correct (Content 8 and Type is <class 'int'>).

Info Changing virtual device color temperature to '5'

Success Light device brightness is correct (Content 5 and Type is <class 'int'>).

Success Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).

Info Changing light device color temperature to '5'

Success Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).

Success Light device brightness is correct (Content 8 and Type is <class 'int'>).

Info Changing virtual device color temperature to '5'

Success Light device brightness is correct (Content 5 and Type is <class 'int'>).

Info Resetting precondition (Power off)

Testdetails

Info Setting preconditions (Power on)

Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload on Received message with topic shellies/gfw/floor/main_light/relay/0 and payload b'on'

```
Received message with topic zigbee/gfw/floor/main_light_1/get and payload b'{"state":
       Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/floor/main_light_2/get and payload b'{"state":
       Sending message with topic zigbee/gfw/floor/main_light_2 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic videv/gfw/floor/main_light/state and payload b'true'
       Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/gfw/floor/main_light_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
         Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).
Success
       Result (Virtual device color temperature): 5 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 5 (<class 'int'>)
Info
      Changing light device color temperature to '5'
       Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 413.0}
       Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 413.0}'
       Received message with topic videv/gfw/floor/main_light/color_temp and payload b'8'
Success
         Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
       Result (Virtual device color temperature): 8 (<class 'int'>)
       Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
Success
         Light device brightness is correct (Content 8 and Type is <class 'int'>).
       Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
Info
      Changing virtual device color temperature to '5'
       Sending message with topic videv/gfw/floor/main_light/color_temp/set and payload 5
       Received message with topic zigbee/gfw/floor/main_light_1/set and payload
       \rightarrow b'{"color_temp": 352}'
       Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
          "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/floor/main_light_2/set and payload

    b'{"color_temp": 352}'
```

```
Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       Received message with topic videv/gfw/floor/main_light/color_temp and payload b'5'
Success
         Light device brightness is correct (Content 5 and Type is <class 'int'>).
      Result (Light device brightness): 5 (<class 'int'>)
       Expectation (Light device brightness): result = 5 (<class 'int'>)
Success
         Virtual device color temperature is correct (Content 5 and Type is <class 'int'>).
      Result (Virtual device color temperature): 5 (<class 'int'>)
      Expectation (Virtual device color temperature): result = 5 (<class 'int'>)
Info
      Changing light device color temperature to '5'
      Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 413.0}
      Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 413.0}'
      Received message with topic videv/gfw/floor/main_light/color_temp and payload b'8'
Success
         Virtual device color temperature is correct (Content 8 and Type is <class 'int'>).
      Result (Virtual device color temperature): 8 (<class 'int'>)
      Expectation (Virtual device color temperature): result = 8 (<class 'int'>)
Success
         Light device brightness is correct (Content 8 and Type is <class 'int'>).
      Result (Light device brightness): 8 (<class 'int'>)
       Expectation (Light device brightness): result = 8 (<class 'int'>)
Info
      Changing virtual device color temperature to '5'
      Sending message with topic videv/gfw/floor/main_light/color_temp/set and payload 5
      Received message with topic zigbee/gfw/floor/main_light_1/set and payload

    b'{"color_temp": 352}'

      Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/gfw/floor/main_light_2/set and payload
       \rightarrow b'{"color_temp": 352}'
      Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       \hookrightarrow "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic videv/gfw/floor/main_light/color_temp and payload b'5'
```

Success Light device brightness is correct (Content 5 and Type is <class 'int'>).

Result (Light device brightness): 5 (<class 'int'>)

Expectation (Light device brightness): result = 5 (<class 'int'>)

Info Resetting precondition (Power off)

Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload off
Received message with topic shellies/gfw/floor/main_light/relay/0 and payload b'off'

Received message with topic videv/gfw/floor/main_light/state and payload b'false'

4.57 Power On/Off test for device and virtual device: shellies/gfw/floor/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:14:36,411 Finished-Time: 2023-02-15 07:14:37,621

Time-Consumption 1.211s

Testresults:

Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>
Success	Virtual device state is correct (Content False and Type is <class 'bool'="">).</class>
Info	Changing switching device state to 'True'
Success	Virtual device state is correct (Content True and Type is <class 'bool'="">).</class>
Success	Switching device state is correct (Content True and Type is <class 'bool'="">).</class>
Info	Changing virtual device state to 'False'
Success	Switching device state is correct (Content False and Type is <class 'bool'="">).</class>

Testdetails

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Result (Virtual device state): False (<class 'bool'>)

Expectation (Virtual device state): result = False (<class 'bool'>)

Info Changing switching device state to 'True'

Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload on

```
Received message with topic shellies/gfw/floor/main_light/relay/0 and payload b'on'
       Received message with topic zigbee/gfw/floor/main_light_1/get and payload b'{"state":
       Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/floor/main_light_2/get and payload b'{"state":
       Sending message with topic zigbee/gfw/floor/main_light_2 and payload {"state": "on",
          "brightness": 127.0, "color_temp": 352.0}
       Received message with topic videv/gfw/floor/main_light/state and payload b'true'
       Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/gfw/floor/main_light_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
         Virtual device state is correct (Content True and Type is <class 'bool'>).
Success
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
          Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/gfw/floor/main_light/state/set and payload false
       Received message with topic shellies/gfw/floor/main_light/relay/0/command and payload
       ⇔ b'off'
       Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload off
       Received message with topic shellies/gfw/floor/main_light/relay/0 and payload b'off'
       Received message with topic videv/gfw/floor/main_light/state and payload b'false'
Success
         Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
Success
          Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
```

```
Info
      Changing switching device state to 'True'
       Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload on
       Received message with topic shellies/gfw/floor/main_light/relay/0 and payload b'on'
       Received message with topic zigbee/gfw/floor/main_light_1/get and payload b'{"state":
       Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
           "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/floor/main_light_2/get and payload b'{"state":
       Sending message with topic zigbee/gfw/floor/main_light_2 and payload {"state": "on",
           "brightness": 127.0, "color_temp": 352.0}
       Received message with topic videv/gfw/floor/main_light/state and payload b'true'
       Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/gfw/floor/main_light_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
         Virtual device state is correct (Content True and Type is <class 'bool'>).
Success
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
         Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/gfw/floor/main_light/state/set and payload false
       Received message with topic shellies/gfw/floor/main_light/relay/0/command and payload
       \hookrightarrow b'off'
       Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload off
       Received message with topic shellies/gfw/floor/main_light/relay/0 and payload b'off'
       Received message with topic videv/gfw/floor/main_light/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
```

4.58 Brightness synchronisation test: videv/gfw/floor/main_light

Testsummary

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/synchronisation.py (42)

Start-Time: 2023-02-15 07:14:37,622 Finished-Time: 2023-02-15 07:14:38,830

Time-Consumption 1.209s

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Info Setting preconditions for master device 'True' (Power on)

Info Changing master device brightness to '35'

Success Follower device (zigbee/gfw/floor/main_light_1) brightness is correct (Content 35 and Type is

<class 'int'>).

Success Follower device (zigbee/gfw/floor/main_light_2) brightness is correct (Content 35 and Type is

<class 'int'>).

Info Changing master device brightness to '50'

Success Follower device (zigbee/gfw/floor/main_light_1) brightness is correct (Content 50 and Type is

<class 'int'>).

Success Follower device (zigbee/gfw/floor/main_light_2) brightness is correct (Content 50 and Type is

<class 'int'>).

Info Resetting preconditions for master device 'False' (Power off)

Testdetails

Info Setting preconditions for master device 'True' (Power on)

Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload on

Received message with topic shellies/gfw/floor/main_light/relay/O and payload b'on'

Received message with topic zigbee/gfw/floor/main_light_1/get and payload b'{"state":

Received message with topic zigbee/gfw/floor/main_light_2/get and payload b'{"state":

Received message with topic videv/gfw/floor/main_light/state and payload b'true'

Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":

→ "on", "brightness": 127.0, "color_temp": 352.0}'

Info Changing master device brightness to '35'

Sending message with topic videv/gfw/floor/main_light/brightness/set and payload 35

 ${\tt Received\ message\ with\ topic\ zigbee/gfw/floor/main_light_1/set\ and\ payload}$

→ b'{"brightness": 90}'

Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",

"brightness": 90.0, "color_temp": 352.0}

```
Received message with topic zigbee/gfw/floor/main_light_2/set and payload

    b'{"brightness": 90}'

      Sending message with topic zigbee/gfw/floor/main_light_2 and payload {"state": "on",
       → "brightness": 90.0, "color_temp": 352.0}
      Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       → "on", "brightness": 90.0, "color_temp": 352.0}'
      Received message with topic zigbee/gfw/floor/main_light_2 and payload b'{"state":
          "on", "brightness": 90.0, "color_temp": 352.0}'
      Received message with topic videv/gfw/floor/main_light/brightness and payload b'35'
Success
         Follower device (zigbee/gfw/floor/main_light_1) brightness is correct (Content 35 and Type is <class
         'int'>).
      Result (Follower device (zigbee/gfw/floor/main_light_1) brightness): 35 (<class
      Expectation (Follower device (zigbee/gfw/floor/main_light_1) brightness): result = 35
       Follower device (zigbee/gfw/floor/main_light_2) brightness is correct (Content 35 and Type is <class
Success
         'int'>)
      Result (Follower device (zigbee/gfw/floor/main_light_2) brightness): 35 (<class
      Expectation (Follower device (zigbee/gfw/floor/main_light_2) brightness): result = 35
       Changing master device brightness to '50'
Info
      Sending message with topic videv/gfw/floor/main_light/brightness/set and payload 50
      Received message with topic zigbee/gfw/floor/main_light_1/set and payload

    b'{"brightness": 128}'

      Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/gfw/floor/main_light_2/set and payload

    b'{"brightness": 128}'

      Sending message with topic zigbee/gfw/floor/main_light_2 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
          "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/gfw/floor/main_light_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic videv/gfw/floor/main_light/brightness and payload b'50'
         Follower device (zigbee/gfw/floor/main_light_1) brightness is correct (Content 50 and Type is <class
Success
```

Result (Follower device (zigbee/gfw/floor/main_light_1) brightness): 50 (<class

→ 'int'>)

Expectation (Follower device (zigbee/gfw/floor/main_light_1) brightness): result = 50

Graph (<class 'int'>)

Success Follower device (zigbee/gfw/floor/main_light_2) brightness is correct (Content 50 and Type is <class 'int'>).

Result (Follower device (zigbee/gfw/floor/main_light_2) brightness): 50 (<class -- 'int'>)

Expectation (Follower device (zigbee/gfw/floor/main_light_2) brightness): result = 50

-- (<class 'int'>)

Info Resetting preconditions for master device 'False' (Power off)

Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload off

Received message with topic shellies/gfw/floor/main_light/relay/0 and payload b'off'

Received message with topic videv/gfw/floor/main_light/state and payload b'false'

4.59 Color temperature synchronisation test: videv/gfw/floor/main_light

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/synchronisation.py (67)

Start-Time: 2023-02-15 07:14:38,831 Finished-Time: 2023-02-15 07:14:40,040

Time-Consumption 1.209s

Testresults:

Info Setting preconditions for master device 'True' (Power on)

Info Changing master device color temperature to '2'

Success Follower device (zigbee/gfw/floor/main_light_1) color temperature is correct (Content 2 and

Type is <class 'int'>).

Success Follower device (zigbee/gfw/floor/main_light_2) color temperature is correct (Content 2 and

Type is <class 'int'>).

Info Changing master device color temperature to '5'

Success Follower device (zigbee/gfw/floor/main_light_1) color temperature is correct (Content 5 and

Type is <class 'int'>).

Success Follower device (zigbee/gfw/floor/main_light_2) color temperature is correct (Content 5 and

Type is <class 'int'>).

Info Resetting preconditions for master device 'False' (Power off)

Testdetails

Info Setting preconditions for master device 'True' (Power on)

Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload on Received message with topic shellies/gfw/floor/main_light/relay/0 and payload b'on'

```
Received message with topic zigbee/gfw/floor/main_light_1/get and payload b'{"state":
       Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
      Received message with topic zigbee/gfw/floor/main_light_2/get and payload b'{"state":
      Sending message with topic zigbee/gfw/floor/main_light_2 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
      Received message with topic videv/gfw/floor/main_light/state and payload b'true'
      Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Received message with topic zigbee/gfw/floor/main_light_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
      Changing master device color temperature to '2'
Info
      Sending message with topic videv/gfw/floor/main_light/color_temp/set and payload 2
      Received message with topic zigbee/gfw/floor/main_light_1/set and payload

    b'{"color_temp": 291}'

      Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 291.0}
      Received message with topic zigbee/gfw/floor/main_light_2/set and payload

    b'{"color_temp": 291}'

      Sending message with topic zigbee/gfw/floor/main_light_2 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 291.0}
      Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 291.0}'
      Received message with topic zigbee/gfw/floor/main_light_2 and payload b'{"state":
       \hookrightarrow "on", "brightness": 127.0, "color_temp": 291.0}'
      Received message with topic videv/gfw/floor/main_light/color_temp and payload b'2'
Success
         Follower device (zigbee/gfw/floor/main_light_1) color temperature is correct (Content 2 and Type is
         <class 'int'>).
      Result (Follower device (zigbee/gfw/floor/main_light_1) color temperature): 2 (<class
      Expectation (Follower device (zigbee/gfw/floor/main_light_1) color temperature):
       → result = 2 (<class 'int'>)
Success
         Follower device (zigbee/gfw/floor/main_light_2) color temperature is correct (Content 2 and Type is
         <class 'int'>).
      Result (Follower device (zigbee/gfw/floor/main_light_2) color temperature): 2 (<class
      Expectation (Follower device (zigbee/gfw/floor/main_light_2) color temperature):
       → result = 2 (<class 'int'>)
```

```
Info
      Changing master device color temperature to '5'
       Sending message with topic videv/gfw/floor/main_light/color_temp/set and payload 5
       Received message with topic zigbee/gfw/floor/main_light_1/set and payload
       \rightarrow b'{"color_temp": 352}'
       Sending message with topic zigbee/gfw/floor/main_light_1 and payload {"state": "on",
       → "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/floor/main_light_2/set and payload
       \rightarrow b'{"color_temp": 352}'
       Sending message with topic zigbee/gfw/floor/main_light_2 and payload {"state": "on",
           "brightness": 127.0, "color_temp": 352.0}
       Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic zigbee/gfw/floor/main_light_2 and payload b'{"state":
       → "on", "brightness": 127.0, "color_temp": 352.0}'
       Received message with topic videv/gfw/floor/main_light/color_temp and payload b'5'
Success
         Follower device (zigbee/gfw/floor/main_light_1) color temperature is correct (Content 5 and Type is
          <class 'int'>).
       Result (Follower device (zigbee/gfw/floor/main_light_1) color temperature): 5 (<class
       → 'int'>)
       Expectation (Follower device (zigbee/gfw/floor/main_light_1) color temperature):

→ result = 5 (<class 'int'>)

         Follower device (zigbee/gfw/floor/main_light_2) color temperature is correct (Content 5 and Type is
Success
          <class 'int'>).
       Result (Follower device (zigbee/gfw/floor/main_light_2) color temperature): 5 (<class
       → 'int'>)
       Expectation (Follower device (zigbee/gfw/floor/main_light_2) color temperature):

    result = 5 (<class 'int'>)

Info
      Resetting preconditions for master device 'False' (Power off)
       Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload off
       Received message with topic shellies/gfw/floor/main_light/relay/0 and payload b'off'
       Received message with topic videv/gfw/floor/main_light/state and payload b'false'
```

4.60 Power On/Off synchronisation test: shellies/gfw/floor/main_light

Testsummary

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/synchronisation.py (24)

Start-Time: 2023-02-15 07:14:40,040 Finished-Time: 2023-02-15 07:14:40,947

Time-Consumption 0.907s

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Info	Setting preconditions for master device 'False'
Info	Changing master device state to 'True'
Success	Follower device (zigbee/gfw/floor/main_light_1) state is correct (Content True and Type is
	<class 'bool'="">).</class>
Success	Follower device (zigbee/gfw/floor/main_light_2) state is correct (Content True and Type is
	<class 'bool'="">).</class>
Info	Changing master device state to 'False'
Success	Follower device (zigbee/gfw/floor/main_light_1) state is correct (Content False and Type is
	<class 'bool'="">).</class>
Success	Follower device (zigbee/gfw/floor/main_light_2) state is correct (Content False and Type is

<class 'bool'>).

Testdetails

Info Setting preconditions for master device 'False'

Info Changing master device state to 'True'

Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload on

Received message with topic shellies/gfw/floor/main_light/relay/0 and payload b'on'

Received message with topic zigbee/gfw/floor/main_light_1/get and payload b'{"state":

Received message with topic zigbee/gfw/floor/main_light_2/get and payload b'{"state": $\ \ \ \ \$ ""}'

Sending message with topic zigbee/gfw/floor/main_light_2 and payload {"state": "on", brightness": 127.0, "color_temp": 352.0}

Received message with topic videv/gfw/floor/main_light/state and payload b'true'

Received message with topic zigbee/gfw/floor/main_light_1 and payload b'{"state": on", "brightness": 127.0, "color_temp": 352.0}'

Received message with topic zigbee/gfw/floor/main_light_2 and payload b'{"state": on", "brightness": 127.0, "color_temp": 352.0}'

Success Follower device (zigbee/gfw/floor/main_light_1) state is correct (Content True and Type is <class 'bool'>).

```
Result (Follower device (zigbee/gfw/floor/main_light_1) state): True (<class 'bool'>)

Expectation (Follower device (zigbee/gfw/floor/main_light_1) state): result = True

(<class 'bool'>)
```

Success Follower device (zigbee/gfw/floor/main_light_2) state is correct (Content True and Type is <class 'bool'>).

Result (Follower device (zigbee/gfw/floor/main_light_2) state): True (<class 'bool'>)

Expectation (Follower device (zigbee/gfw/floor/main_light_2) state): result = True

(<class 'bool'>)

Info Changing master device state to 'False'

Sending message with topic shellies/gfw/floor/main_light/relay/0 and payload off
Received message with topic shellies/gfw/floor/main_light/relay/0 and payload b'off'
Received message with topic videv/gfw/floor/main_light/state and payload b'false'

Success Follower device (zigbee/gfw/floor/main_light_1) state is correct (Content False and Type is <class 'bool'>).

Result (Follower device (zigbee/gfw/floor/main_light_1) state): False (<class 'bool'>)

Expectation (Follower device (zigbee/gfw/floor/main_light_1) state): result = False

(<class 'bool'>)

Success Follower device (zigbee/gfw/floor/main_light_2) state is correct (Content False and Type is <class 'bool'>).

Result (Follower device (zigbee/gfw/floor/main_light_2) state): False (<class 'bool'>)

Expectation (Follower device (zigbee/gfw/floor/main_light_2) state): result = False

Graph (<class 'bool'>)

4.61 Away mode test: zigbee/gfw/marion/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (101)

Start-Time: 2023-02-15 07:14:40,948 Finished-Time: 2023-02-15 07:14:41,855

Time-Consumption 0.908s

Testresults:

Info Setting preconditions (Default setpoint)

Success Away mode is correct (Content False and Type is <class 'bool'>).

Info Activating away mode

Success Away mode is correct (Content True and Type is <class 'bool'>).

Success Temperature setpoint is correct (Content 18 and Type is <class 'int'>).

Info Deactivating away mode

Success Away mode is correct (Content False and Type is <class 'bool'>).

Success Temperature setpoint is correct (Content 23 and Type is <class 'int'>).

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Unittest for smart_brain **Testdetails** Setting preconditions (Default setpoint) Info Sending message with topic videv/gfw/marion/heating_valve/set_default_temperature/set \hookrightarrow and payload null Received message with topic videv/gfw/marion/heating_valve/user_temperature_setpoint \hookrightarrow and payload b'23' Received message with topic zigbee/gfw/marion/heating_valve/set and payload → b'{"current_heating_setpoint": 23}' Sending message with topic zigbee/gfw/marion/heating_valve and payload Received message with topic videv/gfw/marion/heating_valve/valve_temperature_setpoint \hookrightarrow and payload b'23' Received message with topic zigbee/gfw/marion/heating_valve and payload → b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}' Away mode is correct (Content False and Type is <class 'bool'>). Success Result (Away mode): False (<class 'bool'>) Expectation (Away mode): result = False (<class 'bool'>) Info Activating away mode Sending message with topic videv/gfw/marion/heating_valve/away_mode/set and payload Received message with topic zigbee/gfw/marion/heating_valve/set and payload → b'{"current_heating_setpoint": 18}' Sending message with topic zigbee/gfw/marion/heating_valve and payload Received message with topic videv/gfw/marion/heating_valve/valve_temperature_setpoint \hookrightarrow and payload b'18' Received message with topic zigbee/gfw/marion/heating_valve and payload b'{"current_heating_setpoint": 18, "local_temperature": 20.7, "battery": 97}' Received message with topic videv/gfw/marion/heating_valve/away_mode and payload ⇔ b'true' Success Away mode is correct (Content True and Type is <class 'bool'>).

```
Success Away mode is correct (Content True and Type is <class 'bool'>).

Result (Away mode): True (<class 'bool'>)

Expectation (Away mode): result = True (<class 'bool'>)

Success Temperature setpoint is correct (Content 18 and Type is <class 'int'>).

Result (Temperature setpoint): 18 (<class 'int'>)

Expectation (Temperature setpoint): result = 18 (<class 'int'>)
```

Info Deactivating away mode Sending message with topic videv/gfw/marion/heating_valve/away_mode/set and payload Received message with topic zigbee/gfw/marion/heating_valve/set and payload b'{"current_heating_setpoint": 23}' Sending message with topic zigbee/gfw/marion/heating_valve and payload → {"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97} Received message with topic videv/gfw/marion/heating_valve/valve_temperature_setpoint \hookrightarrow and payload b'23' Received message with topic videv/gfw/marion/heating_valve/away_mode and payload ⇔ b'false' Received message with topic zigbee/gfw/marion/heating_valve and payload → b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}' Away mode is correct (Content False and Type is <class 'bool'>). Success Result (Away mode): False (<class 'bool'>) Expectation (Away mode): result = False (<class 'bool'>) Success Temperature setpoint is correct (Content 23 and Type is <class 'int'>). Result (Temperature setpoint): 23 (<class 'int'>)

4.62 Boost mode test: zigbee/gfw/marion/heating_valve

Expectation (Temperature setpoint): result = 23 (<class 'int'>)

Testsummary

Caller:	/home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (128)
Start-Time:	2023-02-15 07:14:41,856
Finished-Time:	2023-02-15 07:14:42,762
Time-Consumption	0.906s
Testresults:	
Info	Setting preconditions (Default setpoint)
Success	Boost timer is correct (Content 0 and Type is <class 'int'="">).</class>
Info	Activating boost mode
Success	Boost timer is greater expectation (Content 900 and Type is <class 'int'="">).</class>
Info	Setting postconditions (Default setpoint)
Success	Boost timer is correct (Content 0 and Type is <class 'int'="">).</class>

Testdetails Setting preconditions (Default setpoint) Info Sending message with topic videv/gfw/marion/heating_valve/set_default_temperature/set \hookrightarrow and payload null Success Boost timer is correct (Content 0 and Type is <class 'int'>). Result (Boost timer): 0 (<class 'int'>) Expectation (Boost timer): result = 0 (<class 'int'>) Info Activating boost mode Sending message with topic videv/gfw/marion/heating_valve/start_boost/set and payload Received message with topic videv/gfw/marion/heating_valve/boost_timer and payload \hookrightarrow b'900' Received message with topic zigbee/gfw/marion/heating_valve/set and payload → b'{"current_heating_setpoint": 30}' Sending message with topic zigbee/gfw/marion/heating_valve and payload → {"current_heating_setpoint": 30, "local_temperature": 20.7, "battery": 97} Received message with topic videv/gfw/marion/heating_valve/valve_temperature_setpoint \hookrightarrow and payload b'30' Received message with topic zigbee/gfw/marion/heating_valve and payload b'{"current_heating_setpoint": 30, "local_temperature": 20.7, "battery": 97}' Success Boost timer is greater expectation (Content 900 and Type is <class 'int'>). Result (Boost timer): 900 (<class 'int'>) Expectation (Boost timer): result > 0 (<class 'int'>) Info Setting postconditions (Default setpoint) Sending message with topic videv/gfw/marion/heating_valve/set_default_temperature/set \hookrightarrow and payload true Received message with topic videv/gfw/marion/heating_valve/boost_timer and payload ⇔ b'0' Received message with topic zigbee/gfw/marion/heating_valve/set and payload → b'{"current_heating_setpoint": 23}' Sending message with topic zigbee/gfw/marion/heating_valve and payload Received message with topic videv/gfw/marion/heating_valve/valve_temperature_setpoint \hookrightarrow and payload b'23'

Received message with topic zigbee/gfw/marion/heating_valve and payload

→ b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}'

Success Boost timer is correct (Content 0 and Type is <class 'int'>).

```
Result (Boost timer): 0 (<class 'int'>)
Expectation (Boost timer): result = 0 (<class 'int'>)
```

4.63 Default temperature test for device and virtual device: zigbee/gfw/marion/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (50)

Start-Time: 2023-02-15 07:14:42,763 Finished-Time: 2023-02-15 07:14:43,367

Time-Consumption 0.604s

Testresults:

Info Setting preconditions (Valve setpoint to 18.0)

Success Valve temperature setpoint (is not default temperature) is correct (Content True and Type is

<class 'bool'>).

Info Triggering set to default temperature (23.0)

Success Valve temperature setpoint is correct (Content 23 and Type is <class 'int'>).

Testdetails

Info Setting preconditions (Valve setpoint to 18.0)

Sending message with topic zigbee/gfw/marion/heating_valve and payload

Received message with topic zigbee/gfw/marion/heating_valve and payload

→ b'{"current_heating_setpoint": 18, "local_temperature": 20.7, "battery": 97}'

 ${\tt Received\ message\ with\ topic\ zigbee/gfw/marion/heating_valve/set\ and\ payload}$

→ b'{"current_heating_setpoint": 18}'

Received message with topic videv/gfw/marion/heating_valve/valve_temperature_setpoint

 \hookrightarrow and payload b'18'

Received message with topic videv/gfw/marion/heating_valve/user_temperature_setpoint

 \hookrightarrow and payload b'18'

Success Valve temperature setpoint (is not default temperature) is correct (Content True and Type is <class 'bool'>)

'bool'>).

Result (Valve temperature setpoint (is not default temperature)): True (<class

→ 'bool'>)

Expectation (Valve temperature setpoint (is not default temperature)): result = True

Info Triggering set to default temperature (23.0)

Sending message with topic videv/gfw/marion/heating_valve/set_default_temperature/set → and payload null

Received message with topic videv/gfw/marion/heating_valve/user_temperature_setpoint and payload b'23'

Received message with topic zigbee/gfw/marion/heating_valve/set and payload → b'{"current_heating_setpoint": 23}'

Sending message with topic zigbee/gfw/marion/heating_valve and payload {"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}

Received message with topic videv/gfw/marion/heating_valve/valve_temperature_setpoint \hookrightarrow and payload b'23'

Received message with topic zigbee/gfw/marion/heating_valve and payload → b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}'

Success Valve temperature setpoint is correct (Content 23 and Type is <class 'int'>).

```
Result (Valve temperature setpoint): 23 (<class 'int'>)
Expectation (Valve temperature setpoint): result = 23 (<class 'int'>)
```

4.64 Summer mode test: zigbee/gfw/marion/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (74)

Start-Time: 2023-02-15 07:14:43,368 Finished-Time: 2023-02-15 07:14:44,275

Time-Consumption 0.907s

Testresults:

Info	Setting preconditions (Default setpoint)

Success Summer mode is correct (Content False and Type is <class 'bool'>).

Info Activating summer mode

Summer mode is correct (Content True and Type is <class 'bool'>). Success Success Temperature setpoint is correct (Content 5 and Type is <class 'int'>).

Info Deactivating summer mode

Success Summer mode is correct (Content False and Type is <class 'bool'>). Success Temperature setpoint is correct (Content 23 and Type is <class 'int'>).

Testdetails

Info Setting preconditions (Default setpoint)

```
Sending message with topic videv/gfw/marion/heating_valve/set_default_temperature/set
       \hookrightarrow and payload null
Success
         Summer mode is correct (Content False and Type is <class 'bool'>).
      Result (Summer mode): False (<class 'bool'>)
      Expectation (Summer mode): result = False (<class 'bool'>)
Info
      Activating summer mode
      Sending message with topic videv/gfw/marion/heating_valve/summer_mode/set and payload
      Received message with topic zigbee/gfw/marion/heating_valve/set and payload
       → b'{"current_heating_setpoint": 5}'
      Sending message with topic zigbee/gfw/marion/heating_valve and payload
       Received message with topic videv/gfw/marion/heating_valve/valve_temperature_setpoint
       \rightarrow and payload b'5'
      Received message with topic zigbee/gfw/marion/heating_valve and payload
       → b'{"current_heating_setpoint": 5, "local_temperature": 20.7, "battery": 97}'
      Received message with topic videv/gfw/marion/heating_valve/summer_mode and payload
       \hookrightarrow b'true'
Success
         Summer mode is correct (Content True and Type is <class 'bool'>).
      Result (Summer mode): True (<class 'bool'>)
      Expectation (Summer mode): result = True (<class 'bool'>)
         Temperature setpoint is correct (Content 5 and Type is <class 'int'>).
Success
      Result (Temperature setpoint): 5 (<class 'int'>)
      Expectation (Temperature setpoint): result = 5 (<class 'int'>)
Info
      Deactivating summer mode
      Sending message with topic videv/gfw/marion/heating_valve/summer_mode/set and payload
       \hookrightarrow false
      Received message with topic zigbee/gfw/marion/heating_valve/set and payload

    b'{"current_heating_setpoint": 23}'

      Sending message with topic zigbee/gfw/marion/heating_valve and payload
       Received message with topic videv/gfw/marion/heating_valve/valve_temperature_setpoint
       \rightarrow and payload b'23'
      Received message with topic videv/gfw/marion/heating_valve/summer_mode and payload
       ⇔ b'false'
```

```
Received message with topic zigbee/gfw/marion/heating_valve and payload

b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}'

Success Summer mode is correct (Content False and Type is <class 'bool'>).

Result (Summer mode): False (<class 'bool'>)

Expectation (Summer mode): result = False (<class 'bool'>)

Success Temperature setpoint is correct (Content 23 and Type is <class 'int'>).

Result (Temperature setpoint): 23 (<class 'int'>)
```

4.65 User temperature setpoint test for device and virtual device: zigbee/gfw/marion/heating_valve

Testsummary

This test was passed with the state: Success.

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/heating.py (22)
Start-Time: 2023-02-15 07:14:44,275

Expectation (Temperature setpoint): result = 23 (<class 'int'>)

Finished-Time: 2023-02-15 07:14:45,486

Time-Consumption 1.211s

Testresul	ltc.
restresu	ııs.

Info	Changing valve temperature setpoint to '18.0'
Success	Virtual device valve temperature is correct (Content 18 and Type is <class 'int'="">).</class>
Success	Virtual device user temperature is correct (Content 18 and Type is <class 'int'="">).</class>
Info	Changing videv user temperature setpoint to '23.0'
Success	Valve device temperature setpoint is correct (Content 23 and Type is <class 'int'="">).</class>
Success	Virtual device valve temperature is correct (Content 23 and Type is <class 'int'="">).</class>
Info	Changing valve temperature setpoint to '18.0'
Success	Virtual device valve temperature is correct (Content 18 and Type is <class 'int'="">).</class>
Success	Virtual device user temperature is correct (Content 18 and Type is <class 'int'="">).</class>
Info	Changing videv user temperature setpoint to '23.0'
Success	Valve device temperature setpoint is correct (Content 23 and Type is <class 'int'="">).</class>
Success	Virtual device valve temperature is correct (Content 23 and Type is <class 'int'="">).</class>

Testdetails

Info Changing valve temperature setpoint to '18.0'

```
Received message with topic zigbee/gfw/marion/heating_valve/set and payload

    b'{"current_heating_setpoint": 18}'

      Received message with topic videv/gfw/marion/heating_valve/valve_temperature_setpoint
       \rightarrow and payload b'18'
      Received message with topic videv/gfw/marion/heating_valve/user_temperature_setpoint
       \rightarrow and payload b'18'
Success
         Virtual device valve temperature is correct (Content 18 and Type is <class 'int'>).
      Result (Virtual device valve temperature): 18 (<class 'int'>)
      Expectation (Virtual device valve temperature): result = 18 (<class 'int'>)
Success
         Virtual device user temperature is correct (Content 18 and Type is <class 'int'>).
      Result (Virtual device user temperature): 18 (<class 'int'>)
      Expectation (Virtual device user temperature): result = 18 (<class 'int'>)
Info
      Changing videv user temperature setpoint to '23.0'
      Sending message with topic
       → videv/gfw/marion/heating_valve/user_temperature_setpoint/set and payload 23
      Received message with topic zigbee/gfw/marion/heating_valve/set and payload
       → b'{"current_heating_setpoint": 23}'
      Sending message with topic zigbee/gfw/marion/heating_valve and payload
       Received message with topic videv/gfw/marion/heating_valve/valve_temperature_setpoint
          and payload b'23'
      Received message with topic videv/gfw/marion/heating_valve/user_temperature_setpoint
       \rightarrow and payload b'23'
      Received message with topic zigbee/gfw/marion/heating_valve and payload
       → b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}'
Success
         Valve device temperature setpoint is correct (Content 23 and Type is <class 'int'>).
      Result (Valve device temperature setpoint): 23 (<class 'int'>)
      Expectation (Valve device temperature setpoint): result = 23 (<class 'int'>)
         Virtual device valve temperature is correct (Content 23 and Type is <class 'int'>).
Success
      Result (Virtual device valve temperature): 23 (<class 'int'>)
      Expectation (Virtual device valve temperature): result = 23 (<class 'int'>)
Info
      Changing valve temperature setpoint to '18.0'
      Sending message with topic zigbee/gfw/marion/heating_valve and payload
       → {"current_heating_setpoint": 18, "local_temperature": 20.7, "battery": 97}
```

```
Received message with topic zigbee/gfw/marion/heating_valve and payload
       → b'{"current_heating_setpoint": 18, "local_temperature": 20.7, "battery": 97}'
       Received message with topic zigbee/gfw/marion/heating_valve/set and payload
       → b'{"current_heating_setpoint": 18}'
       Received message with topic videv/gfw/marion/heating_valve/valve_temperature_setpoint

→ and payload b'18'

       Received message with topic videv/gfw/marion/heating_valve/user_temperature_setpoint

→ and payload b'18'

Success
         Virtual device valve temperature is correct (Content 18 and Type is <class 'int'>).
       Result (Virtual device valve temperature): 18 (<class 'int'>)
       Expectation (Virtual device valve temperature): result = 18 (<class 'int'>)
Success
         Virtual device user temperature is correct (Content 18 and Type is <class 'int'>).
       Result (Virtual device user temperature): 18 (<class 'int'>)
       Expectation (Virtual device user temperature): result = 18 (<class 'int'>)
Info
      Changing videv user temperature setpoint to '23.0'
       Sending message with topic
       \hookrightarrow videv/gfw/marion/heating_valve/user_temperature_setpoint/set and payload 23
       Received message with topic zigbee/gfw/marion/heating_valve/set and payload
       → b'{"current_heating_setpoint": 23}'
       Sending message with topic zigbee/gfw/marion/heating_valve and payload
       Received message with topic videv/gfw/marion/heating_valve/valve_temperature_setpoint
       \hookrightarrow and payload b'23'
       Received message with topic videv/gfw/marion/heating_valve/user_temperature_setpoint
       \hookrightarrow and payload b'23'
       Received message with topic zigbee/gfw/marion/heating_valve and payload
       → b'{"current_heating_setpoint": 23, "local_temperature": 20.7, "battery": 97}'
Success
         Valve device temperature setpoint is correct (Content 23 and Type is <class 'int'>).
       Result (Valve device temperature setpoint): 23 (<class 'int'>)
       Expectation (Valve device temperature setpoint): result = 23 (<class 'int'>)
Success
         Virtual device valve temperature is correct (Content 23 and Type is <class 'int'>).
       Result (Virtual device valve temperature): 23 (<class 'int'>)
       Expectation (Virtual device valve temperature): result = 23 (<class 'int'>)
```

4.66 Power On/Off test for device and virtual device: shellies/gfw/marion/main_light

Testsummary

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:14:45,487 Finished-Time: 2023-02-15 07:14:46,698

Time-Consumption 1.211s

Testresults:

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Info Changing switching device state to 'True'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Info Changing virtual device state to 'False'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Info Changing switching device state to 'True'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Info Changing virtual device state to 'False'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Testdetails

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Result (Virtual device state): False (<class 'bool'>)

Expectation (Virtual device state): result = False (<class 'bool'>)

Info Changing switching device state to 'True'

Sending message with topic shellies/gfw/marion/main_light/relay/0 and payload on Received message with topic shellies/gfw/marion/main_light/relay/0 and payload b'on' Received message with topic videv/gfw/marion/main_light/state and payload b'true'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Result (Virtual device state): True (<class 'bool'>)

Expectation (Virtual device state): result = True (<class 'bool'>)

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Result (Switching device state): True (<class 'bool'>)

Expectation (Switching device state): result = True (<class 'bool'>)

Info Changing virtual device state to 'False'

Sending message with topic videv/gfw/marion/main_light/state/set and payload false

Received message with topic shellies/gfw/marion/main_light/relay/0/command and

payload b'off'

Sending message with topic shellies/gfw/marion/main_light/relay/0 and payload off Received message with topic shellies/gfw/marion/main_light/relay/0 and payload b'off' Received message with topic videv/gfw/marion/main_light/state and payload b'false'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

```
Result (Switching device state): False (<class 'bool'>)
Expectation (Switching device state): result = False (<class 'bool'>)
```

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

```
Result (Virtual device state): False (<class 'bool'>)
Expectation (Virtual device state): result = False (<class 'bool'>)
```

Info Changing switching device state to 'True'

Sending message with topic shellies/gfw/marion/main_light/relay/0 and payload on Received message with topic shellies/gfw/marion/main_light/relay/0 and payload b'on' Received message with topic videv/gfw/marion/main_light/state and payload b'true'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

```
Result (Virtual device state): True (<class 'bool'>)
Expectation (Virtual device state): result = True (<class 'bool'>)
```

Success Switching device state is correct (Content True and Type is <class 'bool'>).

```
Result (Switching device state): True (<class 'bool'>)

Expectation (Switching device state): result = True (<class 'bool'>)
```

Info Changing virtual device state to 'False'

Sending message with topic videv/gfw/marion/main_light/state/set and payload false Received message with topic shellies/gfw/marion/main_light/relay/0/command and payload b'off'

Sending message with topic shellies/gfw/marion/main_light/relay/0 and payload off
Received message with topic shellies/gfw/marion/main_light/relay/0 and payload b'off'
Received message with topic videv/gfw/marion/main_light/state and payload b'false'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

```
Result (Switching device state): False (<class 'bool'>)

Expectation (Switching device state): result = False (<class 'bool'>)
```

4.67 Power On/Off test for device and virtual device: shellies/stw/stairway/main_light

Testsummary

Caller: /home/dirk/my_repositories/smarthome/smart_brain_test/tests/light.py (27)

Start-Time: 2023-02-15 07:14:46,698 Finished-Time: 2023-02-15 07:14:47,909

Time-Consumption 1.210s

Testresults:

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Info Changing switching device state to 'True'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Info Changing virtual device state to 'False'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Info Changing switching device state to 'True'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Info Changing virtual device state to 'False'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Testdetails

Success Virtual device state is correct (Content False and Type is <class 'bool'>).

Result (Virtual device state): False (<class 'bool'>)

Expectation (Virtual device state): result = False (<class 'bool'>)

Info Changing switching device state to 'True'

Sending message with topic shellies/stw/stairway/main_light/relay/0 and payload on Received message with topic shellies/stw/stairway/main_light/relay/0 and payload b'on' Received message with topic videv/stw/stairway/main_light/timer and payload b'100'

Received message with topic videv/stw/stairway/main_light/state and payload b'true'

Success Virtual device state is correct (Content True and Type is <class 'bool'>).

Result (Virtual device state): True (<class 'bool'>)

Expectation (Virtual device state): result = True (<class 'bool'>)

Success Switching device state is correct (Content True and Type is <class 'bool'>).

Result (Switching device state): True (<class 'bool'>)

Expectation (Switching device state): result = True (<class 'bool'>)

Info Changing virtual device state to 'False'

Sending message with topic videv/stw/stairway/main_light/state/set and payload false

```
Received message with topic shellies/stw/stairway/main_light/relay/0/command and
       → payload b'off'
       Sending message with topic shellies/stw/stairway/main_light/relay/0 and payload off
       Received message with topic shellies/stw/stairway/main_light/relay/0 and payload
       ⇔ b'off'
       Received message with topic shellies/stw/stairway/main_light/relay/0/command and
       → payload b'off'
       Received message with topic videv/stw/stairway/main_light/timer and payload b'0'
       Received message with topic videv/stw/stairway/main_light/state and payload b'false'
Success
          Switching device state is correct (Content False and Type is <class 'bool'>).
       Result (Switching device state): False (<class 'bool'>)
       Expectation (Switching device state): result = False (<class 'bool'>)
Success
          Virtual device state is correct (Content False and Type is <class 'bool'>).
       Result (Virtual device state): False (<class 'bool'>)
       Expectation (Virtual device state): result = False (<class 'bool'>)
Info
      Changing switching device state to 'True'
       Sending message with topic shellies/stw/stairway/main_light/relay/0 and payload on
       Received message with topic shellies/stw/stairway/main_light/relay/0 and payload b'on'
       Received message with topic videv/stw/stairway/main_light/timer and payload b'100'
       Received message with topic videv/stw/stairway/main_light/state and payload b'true'
Success
         Virtual device state is correct (Content True and Type is <class 'bool'>).
       Result (Virtual device state): True (<class 'bool'>)
       Expectation (Virtual device state): result = True (<class 'bool'>)
Success
         Switching device state is correct (Content True and Type is <class 'bool'>).
       Result (Switching device state): True (<class 'bool'>)
       Expectation (Switching device state): result = True (<class 'bool'>)
Info
      Changing virtual device state to 'False'
       Sending message with topic videv/stw/stairway/main_light/state/set and payload false
       Received message with topic shellies/stw/stairway/main_light/relay/0/command and
       → payload b'off'
       Sending message with topic shellies/stw/stairway/main_light/relay/0 and payload off
       Received message with topic shellies/stw/stairway/main_light/relay/0 and payload
       ⇔ b'off'
```

Received message with topic shellies/stw/stairway/main_light/relay/0/command and payload b'off'

Received message with topic videv/stw/stairway/main_light/timer and payload b'0'
Received message with topic videv/stw/stairway/main_light/state and payload b'false'

Success Switching device state is correct (Content False and Type is <class 'bool'>).

Result (Switching device state): False (<class 'bool'>)

Expectation (Switching device state): result = False (<class 'bool'>)