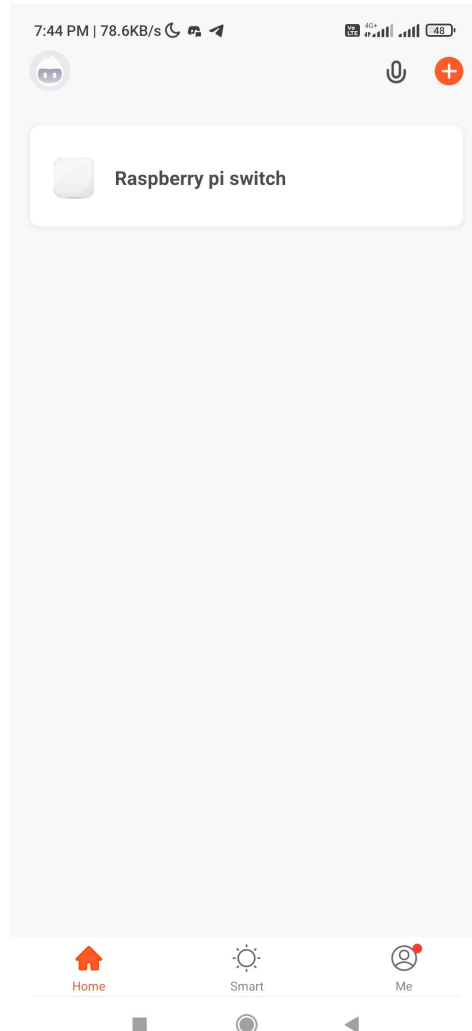


Report Submitted by Prakhar Agrawal  
Submission date- 8/07/21

## Test Report

- Connection:-

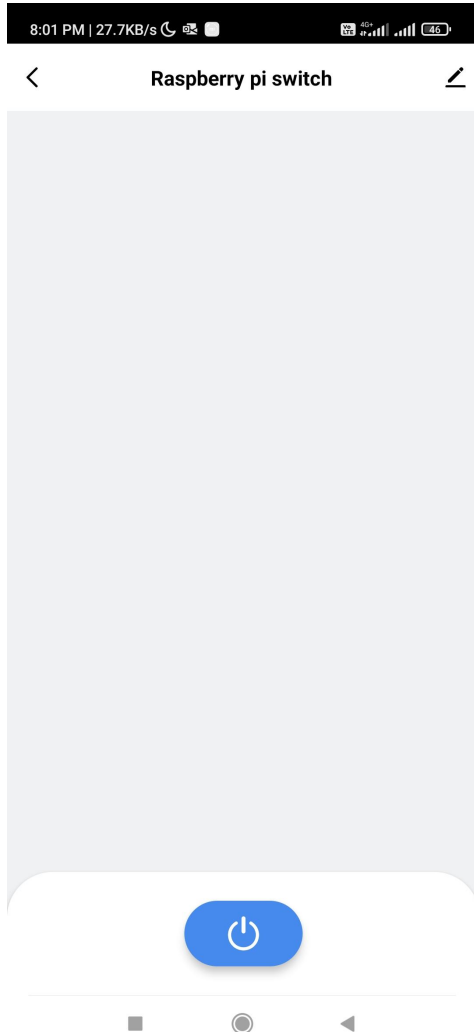
The raspberry pi was successfully connected to the Tuya smart app using



their cloud services.

```
pi@raspberrypi: ~/tuya-iot-link-sdk-embedded-c/build
File Edit Tabs Help
15:13:31 DEBUG network_wrapper.c:234: ok
[ Protocol is TLSv1.2 ]
[ Ciphersuite is TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256 ]
15:13:31 DEBUG network_wrapper.c:236: [ Record expansion is 21 ]
15:13:31 DEBUG network_wrapper.c:241: . Verifying peer X.509 certificate...
15:13:31 DEBUG network_wrapper.c:251: ok
15:13:31 DEBUG mqtt_client_wrapper.c:165: TLS connected.
15:13:31 DEBUG mqtt_service.c:356: mqtt client connected!
15:13:31 DEBUG mqtt_service.c:362: SUBSCRIBE sent for topic smart/device/in/d7cc
0b70b7eedc5ee3phxm to broker.
15:13:31 DEBUG switch_demo.c:73: Tuya Event ID:4(TUYA_EVENT_MQTT_CONNECTED)
15:13:31 INFO switch_demo.c:81: Device MQTT Connected!
15:13:31 INFO tuya_iot.c:667: Tuya MQTT connected.
15:13:31 DEBUG mqtt_client_wrapper.c:55: MQTT_PACKET_TYPE_SUBACK id:1
15:13:31 DEBUG mqtt_service.c:392: Subscribe succeeded ID:1
15:13:31 DEBUG mqtt_client_wrapper.c:55: MQTT_PACKET_TYPE_SUBACK id:2
15:13:31 DEBUG mqtt_service.c:392: Subscribe succeeded ID:2
15:13:31 DEBUG mqtt_client_wrapper.c:55: MQTT_PACKET_TYPE_SUBACK id:3
15:13:31 DEBUG mqtt_service.c:392: Subscribe succeeded ID:3
```

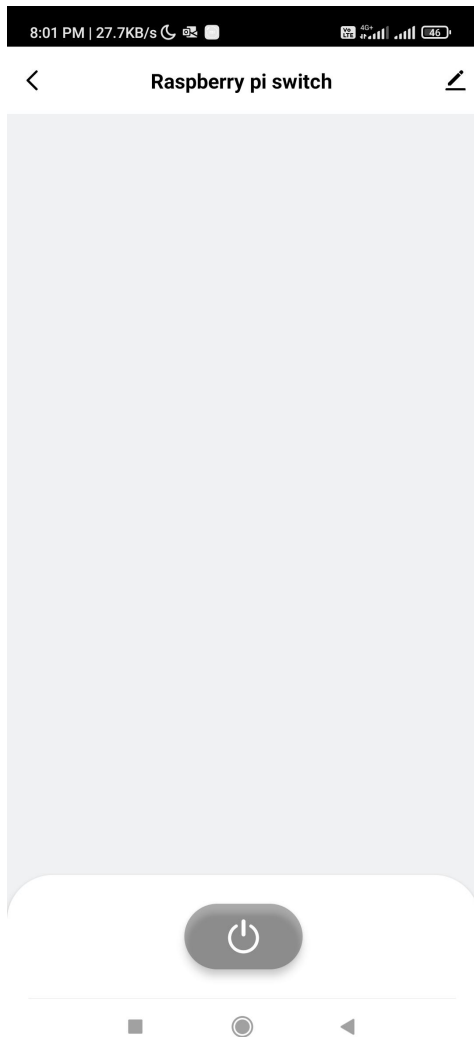
- Working:-  
On and OFF commands were sent from the Tuya smart app to which raspberry pi successfully responded.



```

pi@raspberrypi: ~/tuya-iot-link-sdk-embedded-c/build
File Edit Tabs Help
15:13:31 DEBUG mqtt_client_wrapper.c:55: MQTT_PACKET_TYPE_SUBACK id:3
15:13:31 DEBUG mqtt_service.c:392: Subscribe succeeded ID:3
15:13:47 TRACE matop_service.c:457: POST JSON:{"subId":null,"t":1625753627}
15:13:47 DEBUG matop_service.c:272: atop request: {"id":1,"a":"tuya.device.upgrade.silent.get","t":1625753627,"data":{"subId":null,"t":1625753627},"v":"4.4"}
15:13:47 DEBUG mqtt_service.c:384: rcv message TopicName:rpc/rsp/d7cc9b70b7eedc5ee3phxm, payload len:110
15:13:47 TRACE matop_service.c:24: atop response raw: {"id":1,"code":200,"data":{"result":{"t":1625753627,"success":true},"sign":"b4ae97d8e12baa22","t":1625753627}}
15:13:47 DEBUG switch_demo.c:73: Tuya Event ID:10(TUYA_EVENT_TIMESTAMP_SYNC)
15:13:47 INFO switch_demo.c:93: Sync timestamp:1625753627
15:14:07 DEBUG mqtt_service.c:384: rcv message TopicName:smart/device/in/d7cc9b70b7eedc5ee3phxm, payload len:79
15:14:07 DEBUG mqtt_service.c:157: crc32:c9d0f4af, sequence:3, source:553869, datalen:64
15:14:07 TRACE mqtt_service.c:292: Data JSON:{"data":{"reqType":"sigQry"},"protocol":22,"t":1625753646}
15:14:22 DEBUG mqtt_service.c:384: rcv message TopicName:smart/device/in/d7cc9b70b7eedc5ee3phxm, payload len:79
15:14:22 DEBUG mqtt_service.c:157: crc32:6ee975b4, sequence:4, source:553869, datalen:64
15:14:22 TRACE mqtt_service.c:292: Data JSON:{"data":{"dps":{"101":true},"protocol":5,"t":1625753660}}
15:14:22 TRACE tuya_iot.c:239: dps: {"101":true}
15:14:22 DEBUG switch_demo.c:73: Tuya Event ID:6(TUYA_EVENT_DP_RECEIVE)
15:14:22 DEBUG switch_demo.c:32: Data point download value:{"101":true}
15:14:22 DEBUG mqtt_service.c:598: Report data:{"protocol":4,"t":1625753662,"data":{"devId":"d7cc9b70b7eedc5ee3phxm","dps":{"101":true}}}
15:14:22 DEBUG switch_demo.c:73: Tuya Event ID:7(TUYA_EVENT_DP_RECEIVE_CJSON)
15:14:22 DEBUG mqtt_client_wrapper.c:69: MQTT_PACKET_TYPE_PUBACK id:5

```



```
pi@raspberrypi: ~/tuya-iot-link-sdk-embedded-c/build
File Edit Tabs Help
payload len:79
15:14:07 DEBUG mqtt_service.c:157: crc32:c9d0f4af, sequence:3, source:553869, datalen:64
15:14:07 TRACE mqtt_service.c:292: Data JSON:{"data":{"reqType":"sigQry"},"protocol":22,"t":1625753646}
15:14:22 DEBUG mqtt_service.c:384: recv message TopicName:smart/device/in/d7cc9b70b7eedc5ee3phxm,
payload len:79
15:14:22 DEBUG mqtt_service.c:157: crc32:6ee975b4, sequence:4, source:553869, datalen:64
15:14:22 TRACE mqtt_service.c:292: Data JSON:{"data":{"dps":{"101":true},"protocol":5,"t":1625753660}
15:14:22 TRACE tuyaiot.c:239: dps:
{"101":true}
15:14:22 DEBUG switch_demo.c:73: Tuya Event ID:6(TUYA_EVENT_DP_RECEIVE)
15:14:22 DEBUG switch_demo.c:32: Data point download value:{"101":true}
15:14:22 DEBUG mqtt_service.c:598: Report data:{"protocol":4,"t":1625753662,"data":{"devId":"d7cc9b70b7eedc5ee3phxm","dps":{"101":true}}}
15:14:22 DEBUG switch_demo.c:73: Tuya Event ID:7(TUYA_EVENT_DP_RECEIVE_CJSON)
15:14:22 DEBUG mqtt_client_wrapper.c:69: MQTT_PACKET_TYPE_PUBACK id:5
15:14:33 DEBUG mqtt_service.c:384: recv message TopicName:smart/device/in/d7cc9b70b7eedc5ee3phxm,
payload len:79
15:14:33 DEBUG mqtt_service.c:157: crc32:0ab61e89, sequence:5, source:553869, datalen:64
15:14:33 TRACE mqtt_service.c:292: Data JSON:{"data":{"dps":{"101":false},"protocol":5,"t":1625753672}
15:14:33 TRACE tuyaiot.c:239: dps:
{"101":false}
15:14:33 DEBUG switch_demo.c:73: Tuya Event ID:6(TUYA_EVENT_DP_RECEIVE)
15:14:33 DEBUG switch_demo.c:32: Data point download value:{"101":false}
15:14:33 DEBUG mqtt_service.c:598: Report data:{"protocol":4,"t":1625753673,"data":{"devId":"d7cc9b70b7eedc5ee3phxm","dps":{"101":false}}}
15:14:33 DEBUG switch_demo.c:73: Tuya Event ID:7(TUYA_EVENT_DP_RECEIVE_CJSON)
15:14:33 DEBUG mqtt_client_wrapper.c:69: MQTT_PACKET_TYPE_PUBACK id:6
```

- Conclusion:-  
The raspberry pi based switch is working as expected and hence the system has passed the test cases.