

配网方式

1. 基于“产品开发”流程：

- 基于wifi的ez模式进行配置，这里应该是手机连接目标wifi向路由器发送数据包，然后涂鸦的例程将扫描wifi列表，抓到这个数据包进行解析？是不是抓不到这个数据包就连不上涂鸦的服务器？见 [default.log](#)
- AP模式，我们的开发板wifi无法开启ap
- c.在例程中使用wifi-debug模式，手动输入token，此方法能与涂鸦服务器通信，但是在发送某个post请求后接收到错误的响应，见[token.log](#)

2. 基于“生态设备接入”流程：

- 使用涂鸦官方的<https://github.com/tuya/tuya-connect-kit-for-mqtt-embedded-c> 库进行连接，输入正确的product id, device id等报错，见[mqtt.log](#)，看这个仓库的iotcore-develop分支中的example代码猜测应该是缺少pemi证书？这个证书如何获取？以及tuyalink与tuya_iot有什么关系，为何官方文档中给出的是tuyalink的代码，但是在此仓库的主分支中只剩下关于tuya_iot的内容？
- 使用标准的mqtt协议进行连接，使用mqtt客户端模拟能够正常连接，还未进行正常的数据通信测试。

APP面板开发

如上，如果基于“生态设备接入”流程，涂鸦的APP面板似乎需要自定义？如果基于涂鸦提供的接口开发，能够做到和“产品开发”流程中扫地机产品中的面板差不多的效果么？

default.log

```
sdk start
[01-01 18:12:15 TUYA Debug][tuya_ws_db.c:450] init fs. Path: /tmp/
[01-01 18:12:15 TUYA Info][kv_storge.c:45] Init Kvs with File:/tmp/
[01-01 18:12:15 TUYA Debug][simplekv.c:924] path:/tmp/
[01-01 18:12:15 TUYA Debug][simplekv.c:960] get encrypt_key[00S袂0yK殳]
[01-01 18:12:15 TUYA Debug][simplekv.c:978] normal file exist. bak file not exist
[01-01 18:12:15 TUYA Debug][simplekv.c:291] size in: 0 and final: 28700 And
mag_rec_max: 512
[01-01 18:12:15 TUYA Debug][simplekv.c:306] create data hd success
[01-01 18:12:15 TUYA Debug][simplekv.c:1034] read from normal file
[01-01 18:12:15 TUYA Debug][simplekv.c:746] curr db is V2. No need to upgrade
[01-01 18:12:15 TUYA Debug][simplekv.c:536] head check success
[01-01 18:12:15 TUYA Debug][simplekv.c:639] read and check head success
[01-01 18:12:15 TUYA Debug][simplekv.c:1054] read from normal file success
[01-01 18:12:15 TUYA Info][uni_thread.c:219] thread_create
name:sys_timer,stackDepth:4096,totalstackDepth:4096,priority:5
[01-01 18:12:15 TUYA Debug][uni_thread.c:247] Thread:sys_timer Exec Start. Set to
Running Stat
[01-01 18:12:15 TUYA Debug][simplekv.c:1090] init from normal file success.
[01-01 18:12:15 TUYA Info][mqc_app.c:355] mqc app init ...
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:300 cnt:1
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:302 cnt:2
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:304 cnt:3
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:307 cnt:4
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[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:308 cnt:5
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:312 cnt:6
[01-01 18:12:15 TUYA Debug][tuya_ipc_mqtt_subscribe.c:293]
iot_register_extra_mqt_cb done
[01-01 18:12:15 TUYA Info][uni_thread.c:219] thread_create
name:cmmod,stackDepth:4096,totalstackDepth:8192,priority:4
[01-01 18:12:15 TUYA Debug][uni_thread.c:247] Thread:cmmod Exec Start. Set to
Running Stat
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:5 cnt:7
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:31 cnt:8
[01-01 18:12:15 TUYA Debug][svc_online_log.c:295] svc online log init success
[01-01 18:12:15 TUYA Debug][log_seq.c:892] read m:4 f:0 l:3
[01-01 18:12:15 TUYA Info][uni_thread.c:219] thread_create name:wk_th-
0,stackDepth:5120,totalstackDepth:13312,priority:3
[01-01 18:12:15 TUYA Debug][uni_thread.c:247] Thread:wk_th-0 Exec Start. Set to
Running Stat
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:gw_bi isFuzzy:0 skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1228] find key:0 gw_bi
[01-01 18:12:15 TUYA Debug][simplekv.c:1257] key:gw_bi find value.Len:192
[01-01 18:12:15 TUYA Debug][ws_db_gw.c:159] gw base read finish:0
[01-01 18:12:15 TUYA Notice][tuya_iot_wifi_api.c:274] wifi soc init.
pid:ot9nw0r4xbuyuvnw firmwarekey:(null) ver:1.2.3
[01-01 18:12:15 TUYA Debug][tuya_svc_upgrade.c:787] tuya svc upgrade init
success!
[01-01 18:12:15 TUYA Notice][tuya_devos_entry.c:1639] Last reset reason: 255
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:gw_bi isFuzzy:0 skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1228] find key:0 gw_bi
[01-01 18:12:15 TUYA Debug][simplekv.c:1257] key:gw_bi find value.Len:192
[01-01 18:12:15 TUYA Debug][ws_db_gw.c:159] gw base read finish:0
[01-01 18:12:15 TUYA Debug][tuya_tls.c:326] tls register constant
uuida16cac16c6e79959 90B1bIWVGZCHtJZ8dKSk8bcwaeAdz9rc
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:tls_ca_cnt isFuzzy:0
skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1224] no key find
[01-01 18:12:15 TUYA Debug][simplekv.c:1271] __read_kv_raw fail. -3
[01-01 18:12:15 TUYA Debug][simplekv.c:1305] __read_kv_with_decode fail. -3
[01-01 18:12:15 TUYA Debug][tuya_tls.c:269] load tls_ca_cnt fail. no ca in local
db
[01-01 18:12:15 TUYA Notice][tuya_devos_entry.c:1128] serial_no:null
Set Country Code:(null)
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:gw_wsm isFuzzy:0 skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1228] find key:1 gw_wsm
[01-01 18:12:15 TUYA Debug][simplekv.c:1257] key:gw_wsm find value.Len:144
[01-01 18:12:15 TUYA Debug][ws_db_gw.c:291] gw_wsm read success
[01-01 18:12:15 TUYA Notice][tuya_devos_entry.c:1159] gw_cntl.gw_wsm.stat:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:wf_start_md isFuzzy:0
skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1224] no key find
[01-01 18:12:15 TUYA Debug][simplekv.c:1271] __read_kv_raw fail. -3
[01-01 18:12:15 TUYA Debug][simplekv.c:1305] __read_kv_with_decode fail. -3
[01-01 18:12:15 TUYA Err][tuya_devos_netcfg.c:589] read wf start mode err:-6
[01-01 18:12:15 TUYA Debug][tuya_devos_netcfg.c:635] <__gw_upd_nc_type> wf start
mode change:-6, 0->1
[01-01 18:12:15 TUYA Notice][tuya_devos_netcfg.c:1290] gw_cntl->gw_wsm.nc_tp:1
[01-01 18:12:15 TUYA Notice][tuya_devos_netcfg.c:1291] gw_cntl->gw_wsm.md:0
[01-01 18:12:15 TUYA Debug][uni_network.c:424] set_dns_cache_priority:0
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[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:gw_di isFuzzy:0 skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1228] find key:2 gw_di
[01-01 18:12:15 TUYA Debug][simplekv.c:1257] key:gw_di find value.Len:320
[01-01 18:12:15 TUYA Debug][ws_db_gw.c:454] gw_di read success
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:is_stride isFuzzy:0
skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1224] no key find
[01-01 18:12:15 TUYA Debug][simplekv.c:1271] __read_kv_raw fail. -3
[01-01 18:12:15 TUYA Debug][simplekv.c:1305] __read_kv_with_decode fail. -3
[01-01 18:12:15 TUYA Debug][tuya_devos_entry.c:782] stride from flash: 0.
[01-01 18:12:15 TUYA Debug][tuya_devos_entry.c:789] no actived, no upgrade:0
[01-01 18:12:15 TUYA Notice][tuya_devos_entry.c:1213] gw_cntl.gw_if.abi:0 input:0
[01-01 18:12:15 TUYA Notice][tuya_devos_entry.c:1214]
gw_cntl.gw_if.product_key:ot9nw0r4xbuyuvnw, input:ot9nw0r4xbuyuvnw
[01-01 18:12:15 TUYA Notice][tuya_devos_entry.c:1215] gw_cntl.gw_if.tp:0, input:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:gw_ai isFuzzy:0 skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1228] find key:3 gw_ai
[01-01 18:12:15 TUYA Debug][simplekv.c:1257] key:gw_ai find value.Len:368
[01-01 18:12:15 TUYA Debug][ws_db_gw.c:579] gw_ai read success
[01-01 18:12:15 TUYA Debug][uni_network.c:438] set_dns_region:1
[01-01 18:12:15 TUYA Debug][tuya_devos_entry.c:1661] enter success_proc
[01-01 18:12:15 TUYA Debug][tuya_devos_health.c:37] init watchdog, interval: 60
[01-01 18:12:15 TUYA Debug][tuya_devos_health.c:318] watch_dog_interval:60,
monitor_detect_interval:600
[01-01 18:12:15 TUYA Info][uni_thread.c:219] thread_create
name:health_monitor,stackDepth:1536,totalstackDepth:14848,priority:5
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:11 cnt:9
[01-01 18:12:15 TUYA Debug][uni_thread.c:247] Thread:health_monitor Exec Start.
Set to Running Stat
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:41 cnt:10
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:100 cnt:11
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:27 cnt:12
[01-01 18:12:15 TUYA Debug][tuya_devos_netcfg.c:1040] nc_tp:1, md:0
[01-01 18:12:15 TUYA Debug][tuya_devos_netcfg.c:1258] lowpower timeout has been
set to 900000 ms.
[01-01 18:12:15 TUYA Debug][netcfg_module.c:132] type:0x10001,is_set:1
[01-01 18:12:15 TUYA Debug][tuya_iot_wifi_api.c:403] register wifi network
monitor. interval:1
[01-01 18:12:15 TUYA Debug][tuya_ipc_sdk_simple_start.c:193] tuya ipc sdk start
is complete

Exec Cmd:ifconfig wlan0 up
THREAD_ALBUM_SEND start...
Exec Cmd:ifconfig wlan0 down
Exec Cmd:iwconfig wlan0 mode Managed
Exec Cmd:ifconfig wlan0 up
WIFI Set Mode 2
Reach Max Record
WIFI Scan AP Begin
index:0 bssid:20-6B-E7-6D-CC-FF RSSI:47 SSID:TP-LINK
index:1 bssid:B2-22-7A-4F-17-B1 RSSI:49 SSID:DIRECT-B1-H
index:2 bssid:52-1F-CC-B3-2E-9B RSSI:43 SSID:iTV-s4is
index:3 bssid:D4-76-A0-83-CF-40 RSSI:64 SSID:VTEK-NJ-Guest
index:4 bssid:D4-76-A0-83-CF-41 RSSI:64 SSID:VTEK-NJ
index:5 bssid:D4-76-A0-83-CF-42 RSSI:64 SSID:VTEK-test
index:6 bssid:4C-1F-CC-B3-2E-9B RSSI:43 SSID:ChinaNet-s4is
```

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index:7 bssid:D4-76-A0-83-E5-19 RSSI:61 SSID:VTEK-NJ
index:8 bssid:C4-70-AB-DE-17-A2 RSSI:67 SSID:@Ruijie-s17A0
index:9 bssid:D4-76-A0-83-E5-18 RSSI:63 SSID:VTEK-NJ-Guest
index:10 bssid:C6-70-AB-5E-17-A2 RSSI:64 SSID:
index:11 bssid:D4-76-A0-83-E5-20 RSSI:38 SSID:VTEK-NJ-Guest
index:12 bssid:D4-76-A0-83-E5-21 RSSI:38 SSID:VTEK-NJ
index:13 bssid:C6-70-AB-DE-17-A2 RSSI:43 SSID:
index:14 bssid:D4-76-A0-83-CF-48 RSSI:61 SSID:VTEK-NJ-Guest
index:15 bssid:38-88-1E-B8-C3-C4 RSSI:32 SSID:ChinaNet-iPi7
index:16 bssid:3C-6A-48-15-87-8B RSSI:42 SSID:jsmc2023
index:17 bssid:D4-76-A0-83-E5-1A RSSI:61 SSID:VTEK-test
index:18 bssid:D4-76-A0-83-CF-49 RSSI:61 SSID:VTEK-NJ
index:19 bssid:78-86-B6-22-42-46 RSSI:29 SSID:ChinaNet-R6JV
WIFI Scan AP End
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:216] sta search all
ap and num: 20
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:01
bssid:20-6b-e7-6d-cc-ff rssi: 47 ssid:TP-LINK
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:01
bssid:b2-22-7a-4f-17-b1 rssi: 49 ssid:DIRECT-B1-H
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:06
bssid:52-1f-cc-b3-2e-9b rssi: 43 ssid:iTV-s4is
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:06
bssid:d4-76-a0-83-cf-40 rssi: 64 ssid:VTEK-NJ-Guest
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:06
bssid:d4-76-a0-83-cf-41 rssi: 64 ssid:VTEK-NJ
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:06
bssid:d4-76-a0-83-cf-42 rssi: 64 ssid:VTEK-test
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:06
bssid:4c-1f-cc-b3-2e-9b rssi: 43 ssid:ChinaNet-s4is
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:11
bssid:d4-76-a0-83-e5-19 rssi: 61 ssid:VTEK-NJ
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:13
bssid:c4-70-ab-de-17-a2 rssi: 67 ssid:@Ruijie-s17A0
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:11
bssid:d4-76-a0-83-e5-18 rssi: 63 ssid:VTEK-NJ-Guest
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:13
bssid:c6-70-ab-5e-17-a2 rssi: 64 ssid:
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:223] index:11 invalid
param, channel:36, bssid:d4-76-a0-83-e5-20
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:223] index:12 invalid
param, channel:36, bssid:d4-76-a0-83-e5-21
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:223] index:13 invalid
param, channel:44, bssid:c6-70-ab-de-17-a2
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:223] index:14 invalid
param, channel:149, bssid:d4-76-a0-83-cf-48
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:223] index:15 invalid
param, channel:36, bssid:38-88-1e-b8-c3-c4
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:01
bssid:3c-6a-48-15-87-8b rssi: 42 ssid:jsmc2023
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:11
bssid:d4-76-a0-83-e5-1a rssi: 61 ssid:VTEK-test
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:223] index:18 invalid
param, channel:149, bssid:d4-76-a0-83-cf-49
[01-01 18:12:20 TUYA Debug][wifi_netcfg_frame_transporter.c:231] channel:01
bssid:78-86-b6-22-42-46 rssi: 29 ssid:ChinaNet-R6JV
```

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[01-01 18:12:20 TUYA Debug][netcfg_module.c:132] type:0x10001,is_set:0
[01-01 18:12:20 TUYA Debug][netcfg_module.c:132] type:0x10001,is_set:0
[01-01 18:12:20 TUYA Debug][netcfg_module.c:132] type:0x10001,is_set:1
Exec Cmd:ifconfig wlan0 up
Exec Cmd:ifconfig wlan0 down
Exec Cmd:iwconfig wlan0 mode Monitor
Exec Cmd:ifconfig wlan0 up
WIFI Set Mode 1
curr event:1
Enable Sniffer
Exec Cmd:ifconfig wlan0 up
Exec Cmd:ifconfig wlan0 down
Exec Cmd:iwconfig wlan0 mode Monitor
Exec Cmd:ifconfig wlan0 up
WIFI Set Mode 1
Enable Qrcode
Sniffer Thread Create
[01-01 18:12:23 TUYA Debug][netcfg_module.c:368] netcfg module start type:0x10001
[01-01 18:12:23 TUYA Debug][tuya_iot_wifi_api.c:369] wifi netstat changed to:6 -
->>
[01-01 18:12:23 TUYA Debug][tuya_ipc_sdk_simple_start.c:71] Net status change
to:6
[01-01 18:12:23 TUYA Debug][user_main.c:115] Net status change to:6
[01-01 18:12:23 TUYA Debug][tuya_iot_wifi_api.c:372] wifi netstat changed to:6
<<--
[01-01 18:12:23 TUYA Debug][wf_nw_cfg.c:853] smart cfg start type:65537
[01-01 18:12:23 TUYA Debug][wifi_netcfg_frame_transporter.c:278] ----
netcfgType:0x10001
[01-01 18:12:23 TUYA Debug][wifi_netcfg_frame_sniffer.c:47] ----register
netcfgType:0x10001
WIFI Get MAC D4-9C-DD-8E-24-A0
[01-01 18:12:23 TUYA Debug][wifi_netcfg_frame_sniffer.c:104] ----start
netcfgType:0x10001
[01-01 18:12:23 TUYA Debug][wifi_netcfg_frame_transporter.c:324] ----start
netcfgType:0x10001
[01-01 18:12:23 TUYA Debug][netcfg_module.c:115] start 0x10001 ret:0
Exec Cmd:iwconfig wlan0 channel 6
WIFI Set Channel:6
Exec Cmd:iwconfig wlan0 channel 11
WIFI Set Channel:11
Exec Cmd:iwconfig wlan0 channel 13
WIFI Set Channel:13
Exec Cmd:iwconfig wlan0 channel 1
WIFI Set Channel:1
Exec Cmd:iwconfig wlan0 channel 6
WIFI Set Channel:6
Exec Cmd:iwconfig wlan0 channel 11
WIFI Set Channel:11
Exec Cmd:iwconfig wlan0 channel 13
WIFI Set Channel:13
Exec Cmd:iwconfig wlan0 channel 1
WIFI Set Channel:1
Exec Cmd:iwconfig wlan0 channel 6
WIFI Set Channel:6
Exec Cmd:iwconfig wlan0 channel 11
WIFI Set Channel:11
```

[illegible]

```
Exec Cmd:iwconfig wlan0 channel 13
WIFI Set Channel:13
Exec Cmd:iwconfig wlan0 channel 1
WIFI Set Channel:1
Exec Cmd:iwconfig wlan0 channel 6
WIFI Set Channel:6
Exec Cmd:iwconfig wlan0 channel 11
WIFI Set Channel:11
Exec Cmd:iwconfig wlan0 channel 13
WIFI Set Channel:13
Exec Cmd:iwconfig wlan0 channel 1
WIFI Set Channel:1
Exec Cmd:iwconfig wlan0 channel 6
WIFI Set Channel:6
Exec Cmd:iwconfig wlan0 channel 11
WIFI Set Channel:11
Exec Cmd:iwconfig wlan0 channel 13
WIFI Set Channel:13
Exec Cmd:iwconfig wlan0 channel 1
WIFI Set Channel:1
Exec Cmd:iwconfig wlan0 channel 6
WIFI Set Channel:6
Exec Cmd:iwconfig wlan0 channel 11
WIFI Set Channel:11
Exec Cmd:iwconfig wlan0 channel 13
WIFI Set Channel:13
Exec Cmd:iwconfig wlan0 channel 1
WIFI Set Channel:1
Exec Cmd:iwconfig wlan0 channel 6
WIFI Set Channel:6
Exec Cmd:iwconfig wlan0 channel 11
WIFI Set Channel:11
Exec Cmd:iwconfig wlan0 channel 13
WIFI Set Channel:13
Exec Cmd:iwconfig wlan0 channel 1
WIFI Set Channel:1
Exec Cmd:iwconfig wlan0 channel 6
WIFI Set Channel:6
Exec Cmd:iwconfig wlan0 channel 11
WIFI Set Channel:11
Exec Cmd:iwconfig wlan0 channel 13
WIFI Set Channel:13
Exec Cmd:iwconfig wlan0 channel 1
WIFI Set Channel:1
Exec Cmd:iwconfig wlan0 channel 6
WIFI Set Channel:6
Exec Cmd:iwconfig wlan0 channel 11
WIFI Set Channel:11
Exec Cmd:iwconfig wlan0 channel 13
WIFI Set Channel:13
[01-01 18:12:30 TUYA Debug][tuya_devos_health.c:30] feed watchdog
Exec Cmd:iwconfig wlan0 channel 1
WIFI Set Channel:1
Exec Cmd:iwconfig wlan0 channel 6
WIFI Set Channel:6
Exec Cmd:iwconfig wlan0 channel 11
WIFI Set Channel:11
Exec Cmd:iwconfig wlan0 channel 13
WIFI Set Channel:13
Exec Cmd:iwconfig wlan0 channel 1
WIFI Set Channel:1
Exec Cmd:iwconfig wlan0 channel 6
WIFI Set Channel:6
Exec Cmd:iwconfig wlan0 channel 11
```



```
WIFI Set Channel:11
Exec Cmd:iwconfig wlan0 channel 13
WIFI Set Channel:13
Exec Cmd:iwconfig wlan0 channel 1
WIFI Set Channel:1
[signal_handle, 94] get signal(2) thread(1694) name(demo_ipc)
```

token.log

```
# ./demo_ipc -m 2 -r "./resource/" -t AYggawpjUX3xx0
sdk start
[01-01 18:12:15 TUYA Debug][tuya_ws_db.c:450] init fs. Path: /tmp/
[01-01 18:12:15 TUYA Info][kv_storge.c:45] Init Kvs with File:/tmp/
[01-01 18:12:15 TUYA Debug][simplekv.c:924] path:/tmp/
[01-01 18:12:15 TUYA Debug][simplekv.c:960] get encrypt_key[SykR
[01-01 18:12:15 TUYA Debug][simplekv.c:978] normal file exist. bak file not exist
[01-01 18:12:15 TUYA Debug][simplekv.c:291] size in: 0 and final: 28700 And
mag_rec_max: 512
[01-01 18:12:15 TUYA Debug][simplekv.c:306] create data hd success
[01-01 18:12:15 TUYA Debug][simplekv.c:1034] read from normal file
[01-01 18:12:15 TUYA Debug][simplekv.c:746] curr db is v2. No need to upgrade
[01-01 18:12:15 TUYA Debug][simplekv.c:536] head check success
[01-01 18:12:15 TUYA Debug][simplekv.c:639] read and check head success
[01-01 18:12:15 TUYA Debug][simplekv.c:1054] read from normal file success
[01-01 18:12:15 TUYA Info][uni_thread.c:219] thread_create
name:sys_timer,stackDepth:4096,totalstackDepth:4096,priority:5
[01-01 18:12:15 TUYA Debug][simplekv.c:1090] init from normal file success.
[01-01 18:12:15 TUYA Debug][uni_thread.c:247] Thread:sys_timer Exec Start. Set to
Running Stat
[01-01 18:12:15 TUYA Info][mqc_app.c:355] mqc app init ...
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:300 cnt:1
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:302 cnt:2
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:304 cnt:3
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:307 cnt:4
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:308 cnt:5
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:312 cnt:6
[01-01 18:12:15 TUYA Debug][tuya_ipc_mqtt_subscribe.c:293]
iot_register_extra_mqt_cb done
[01-01 18:12:15 TUYA Info][uni_thread.c:219] thread_create
name:cmmod,stackDepth:4096,totalstackDepth:8192,priority:4
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:5 cnt:7
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:31 cnt:8
[01-01 18:12:15 TUYA Debug][svc_online_log.c:295] svc online log init success
[01-01 18:12:15 TUYA Debug][uni_thread.c:247] Thread:cmmod Exec Start. Set to
Running Stat
[01-01 18:12:15 TUYA Debug][log_seq.c:892] read m:4 f:0 l:3
[01-01 18:12:15 TUYA Info][uni_thread.c:219] thread_create name:wk_th-
0,stackDepth:5120,totalstackDepth:13312,priority:3
[01-01 18:12:15 TUYA Debug][uni_thread.c:247] Thread:wk_th-0 Exec Start. Set to
Running Stat
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:gw_bi isFuzzy:0 skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1228] find key:0 gw_bi
[01-01 18:12:15 TUYA Debug][simplekv.c:1257] key:gw_bi find value.Len:192
[01-01 18:12:15 TUYA Debug][ws_db_gw.c:159] gw base read finish:0
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[01-01 18:12:15 TUYA Notice][tuya_iot_wifi_api.c:274] wifi soc init.
pid:ot9nw0r4xbuyuvnw firmwarekey:(null) ver:1.2.3
[01-01 18:12:15 TUYA Debug][tuya_svc_upgrade.c:787] tuya svc upgrade init
success!
[01-01 18:12:15 TUYA Notice][tuya_devos_entry.c:1639] Last reset reason: 255
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:gw_bi isFuzzy:0 skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1228] find key:0 gw_bi
[01-01 18:12:15 TUYA Debug][simplekv.c:1257] key:gw_bi find value.Len:192
[01-01 18:12:15 TUYA Debug][ws_db_gw.c:159] gw base read finish:0
[01-01 18:12:15 TUYA Debug][tuya_tls.c:326] tls register constant
uuida16cac16c6e79959 90B1bIWVGZCHtJZ8dKSk8bcwaeAdz9rc
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:tls_ca_cnt isFuzzy:0
skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1224] no key find
[01-01 18:12:15 TUYA Debug][simplekv.c:1271] __read_kv_raw fail. -3
[01-01 18:12:15 TUYA Debug][simplekv.c:1305] __read_kv_with_decode fail. -3
[01-01 18:12:15 TUYA Debug][tuya_tls.c:269] load tls_ca_cnt fail. no ca in local
db
[01-01 18:12:15 TUYA Notice][tuya_devos_entry.c:1128] serial_no:null
Set Country Code:(null)
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:gw_wsm isFuzzy:0 skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1228] find key:1 gw_wsm
[01-01 18:12:15 TUYA Debug][simplekv.c:1257] key:gw_wsm find value.Len:144
[01-01 18:12:15 TUYA Debug][ws_db_gw.c:291] gw_wsm read success
[01-01 18:12:15 TUYA Notice][tuya_devos_entry.c:1159] gw_ctl.gw_wsm.stat:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:wf_start_md isFuzzy:0
skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1224] no key find
[01-01 18:12:15 TUYA Debug][simplekv.c:1271] __read_kv_raw fail. -3
[01-01 18:12:15 TUYA Debug][simplekv.c:1305] __read_kv_with_decode fail. -3
[01-01 18:12:15 TUYA Err][tuya_devos_netcfg.c:589] read wf start mode err:-6
[01-01 18:12:15 TUYA Debug][tuya_devos_netcfg.c:635] <__gw_upd_nc_type> wf start
mode change:-6, 0->0
[01-01 18:12:15 TUYA Notice][tuya_devos_netcfg.c:1290] gw_ctl->gw_wsm.nc_tp:2
[01-01 18:12:15 TUYA Notice][tuya_devos_netcfg.c:1291] gw_ctl->gw_wsm.md:0
[01-01 18:12:15 TUYA Debug][uni_network.c:424] set_dns_cache_priority:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:gw_di isFuzzy:0 skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1228] find key:2 gw_di
[01-01 18:12:15 TUYA Debug][simplekv.c:1257] key:gw_di find value.Len:320
[01-01 18:12:15 TUYA Debug][ws_db_gw.c:454] gw_di read success
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:is_stride isFuzzy:0
skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1224] no key find
[01-01 18:12:15 TUYA Debug][simplekv.c:1271] __read_kv_raw fail. -3
[01-01 18:12:15 TUYA Debug][simplekv.c:1305] __read_kv_with_decode fail. -3
[01-01 18:12:15 TUYA Debug][tuya_devos_entry.c:782] stride from flash: 0.
[01-01 18:12:15 TUYA Debug][tuya_devos_entry.c:789] no actived, no upgrade:0
[01-01 18:12:15 TUYA Notice][tuya_devos_entry.c:1213] gw_ctl.gw_if.abi:0 input:0
[01-01 18:12:15 TUYA Notice][tuya_devos_entry.c:1214]
gw_ctl.gw_if.product_key:ot9nw0r4xbuyuvnw, input:ot9nw0r4xbuyuvnw
[01-01 18:12:15 TUYA Notice][tuya_devos_entry.c:1215] gw_ctl.gw_if.tp:0, input:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1188] read key:gw_ai isFuzzy:0 skipCnt:0
[01-01 18:12:15 TUYA Debug][simplekv.c:1228] find key:3 gw_ai
[01-01 18:12:15 TUYA Debug][simplekv.c:1257] key:gw_ai find value.Len:368
[01-01 18:12:15 TUYA Debug][ws_db_gw.c:579] gw_ai read success
[01-01 18:12:15 TUYA Debug][uni_network.c:438] set_dns_region:1
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[01-01 18:12:15 TUYA Debug][tuya_devos_entry.c:1661] enter success_proc
[01-01 18:12:15 TUYA Debug][tuya_devos_health.c:37] init watchdog, interval: 60
[01-01 18:12:15 TUYA Debug][tuya_devos_health.c:318] watch_dog_interval:60,
monitor_detect_interval:600
[01-01 18:12:15 TUYA Info][uni_thread.c:219] thread_create
name:health_monitor,stackDepth:1536,totalstackDepth:14848,priority:5
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:11 cnt:9
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:41 cnt:10
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:100 cnt:11
[01-01 18:12:15 TUYA Debug][mqc_app.c:149] mq_pro:27 cnt:12
[01-01 18:12:15 TUYA Debug][uni_thread.c:247] Thread:health_monitor Exec Start.
Set to Running Stat
WIFI Get MAC D4-9C-DD-8E-24-A0
[01-01 18:12:15 TUYA Debug][tuya_devos_netcfg.c:1040] nc_tp:2, md:0
[01-01 18:12:15 TUYA Debug][tuya_devos_netcfg.c:1258] lowpower timeout has been
set to 900000 ms.
[01-01 18:12:15 TUYA Debug][netcfg_module.c:132] type:0x10002,is_set:0
[01-01 18:12:15 TUYA Debug][netcfg_module.c:132] type:0x10002,is_set:1
[01-01 18:12:15 TUYA Debug][tuya_iot_wifi_api.c:403] register wifi network
monitor. interval:1
[01-01 18:12:15 TUYA Debug][tuya_devos_netcfg.c:779] ssid:tuya
[01-01 18:12:15 TUYA Debug][tuya_devos_netcfg.c:780] passwd:tuya
[01-01 18:12:15 TUYA Debug][tuya_devos_netcfg.c:781] token:AYggawpjUX3xx0
Exec Cmd:ifconfig wlan0 up
[01-01 18:12:15 TUYA Debug][tuya_devos_netcfg.c:910] region:AY token:ggawpjux
regkey:3xx0
[01-01 18:12:15 TUYA Debug][tuya_ipc_sdk_simple_start.c:193] tuya ipc sdk start
is complete

THREAD_ALBUM_SEND start...
WIFI Set Mode 4
Start AP SSID:SmartLife-24A0
[01-01 18:12:15 TUYA Debug][ap_netcfg.c:800] start ap success:SmartLife-24A0
[01-01 18:12:15 TUYA Debug][netcfg_module.c:132] type:0x10002,is_set:0
[01-01 18:12:15 TUYA Debug][netcfg_module.c:132] type:0x10002,is_set:0
[01-01 18:12:15 TUYA Debug][netcfg_module.c:368] netcfg module start type:0x10002
[01-01 18:12:15 TUYA Err][wifi_netcfg_frame_transporter.c:410] timer is not
run,wait
[01-01 18:12:15 TUYA Notice][tuya_devos_netcfg.c:369] stop ap cfg mthd:4, ret:0
[01-01 18:12:15 TUYA Debug][app_agent.c:270] TUYA Mode
[01-01 18:12:15 TUYA Info][uni_thread.c:219] thread_create
name:lpc_task,stackDepth:2048,totalstackDepth:16896,priority:3
[01-01 18:12:15 TUYA Debug][tuya_devos_netlink.c:360] gw_wsm stat:0
[01-01 18:12:15 TUYA Debug][ap_netcfg.c:899] ap cfg start:65538
[01-01 18:12:15 TUYA Debug][uni_thread.c:247] Thread:lpc_task Exec Start. Set to
Running Stat
[01-01 18:12:15 TUYA Info][uni_thread.c:219] thread_create
name:udp_ap_v3,stackDepth:3584,totalstackDepth:20480,priority:5
[01-01 18:12:15 TUYA Debug][netcfg_module.c:115] start 0x10002 ret:0
[01-01 18:12:15 TUYA Debug][uni_thread.c:247] Thread:udp_ap_v3 Exec Start. Set to
Running Stat
[01-01 18:12:15 TUYA Debug][app_agent.c:748] Setup TCP Server On Port:6668
[01-01 18:12:16 TUYA Debug][tuya_iot_wifi_api.c:369] wifi netstat changed to:6 -
->>
[01-01 18:12:16 TUYA Debug][tuya_ipc_sdk_simple_start.c:71] Net status change
to:6
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[01-01 18:12:16 TUYA Debug][user_main.c:115] Net status change to:6
[01-01 18:12:16 TUYA Debug][tuya_iot_wifi_api.c:372] wifi netstat changed to:6
<<--
[01-01 18:12:16 TUYA Debug][simplekv.c:1317] delete key:tls_ca_cnt isFuzzy:0
[01-01 18:12:16 TUYA Debug][simplekv.c:1323] cnt:7 delete bit arr len:1
[01-01 18:12:16 TUYA Err][wifi_netcfg_frame_transporter.c:410] timer is not
run,wait
[01-01 18:12:16 TUYA Debug][netcfg_module.c:438] netcfg module stop type:0x10002
[01-01 18:12:16 TUYA Debug][ap_netcfg.c:947] ap cfg stop:65538
[01-01 18:12:16 TUYA Debug][simplekv.c:1364] key:tls_ca_cnt not find
Stop AP
[01-01 18:12:16 TUYA Debug][simplekv.c:1317] delete key:tls_ca isFuzzy:1
[01-01 18:12:16 TUYA Debug][simplekv.c:1323] cnt:7 delete bit arr len:1
[01-01 18:12:16 TUYA Debug][simplekv.c:1364] key:tls_ca not find
[01-01 18:12:16 TUYA Debug][simplekv.c:1188] read key:tls_ca_cnt isFuzzy:0
skipCnt:0
[01-01 18:12:16 TUYA Debug][simplekv.c:1224] no key find
[01-01 18:12:16 TUYA Debug][simplekv.c:1271] __read_kv_raw fail. -3
[01-01 18:12:16 TUYA Debug][simplekv.c:1305] __read_kv_with_decode fail. -3
[01-01 18:12:16 TUYA Debug][tuya_tls.c:269] load tls_ca_cnt fail. no ca in local
db
[01-01 18:12:16 TUYA Debug][iot_httpc.c:1210] http_iot_dns_get_cloud_url start
[01-01 18:12:16 TUYA Debug][iot_httpc.c:1232]
sign_buffer:env=3xX0&region=AY&ts=1&uuid=uuida16cac16c6e79959
[01-01 18:12:16 TUYA Debug][iot_httpc.c:1242]
sign_base64_encode:QzLlbrHlPLAb12EqqGUXauJmSS6KNWWqGyneKGnkq6I=
[01-01 18:12:16 TUYA Debug][iot_httpc.c:1289] http_dns region AY, send:
{"region":"AY","env":"3xX0","uuid":"uuida16cac16c6e79959","ts":1,"sign":"QzLlbrHl
PLAb12EqqGUXauJmSS6KNWWqGyneKGnkq6I=","config":
[{"key":"httpUrl","need_ca":false},{ "key":"mqttUrl","need_ca":false},
{"key":"httpsSelfUrl","need_ca":true},{ "key":"mqttsSelfUrl","need_ca":true}}]
[01-01 18:12:16 TUYA Debug][iot_httpc.c:1293] get url config:https://h2.iot-
dns.com/v2/url_config
[01-01 18:12:16 TUYA Debug][uni_network.c:438] set_dns_region:1
[01-01 18:12:16 TUYA Debug][httpc.c:812] Connect: h2.iot-dns.com Port: 443 -->>
[01-01 18:12:16 TUYA Debug][uni_network.c:345] unw_gethostbyname h2.iot-dns.com,
prio 0

[01-01 18:12:16 TUYA Debug][uni_network.c:216] use static dns ip 162.14.14.146
for domain h2.iot-dns.com

[01-01 18:12:16 TUYA Debug][httpc.c:476] ----got ipaddr:162,14,14,146
[01-01 18:12:16 TUYA Debug][ap_netcfg.c:550] wf_ap_stop:0
[01-01 18:12:16 TUYA Debug][uni_thread.c:307] Del Thrd:udp_ap_v3
[01-01 18:12:16 TUYA Debug][httpc.c:814] Connect: h2.iot-dns.com Port: 443 --<<
,r:0
[01-01 18:12:16 TUYA Debug][tuya_tls.c:1201] ----
enable_cert:1,DEFAULT_LOAD_CERT:1
[01-01 18:12:16 TUYA Debug][tuya_tls.c:1242] TUYA_TLS Begin Connect h2.iot-
dns.com:443 CustomNet:TRUE Enable_Cert:TRUE Default:TRUE
[01-01 18:12:16 TUYA Debug][tuya_tls.c:1303] load tuya cert.
[01-01 18:12:16 TUYA Debug][tuya_tls.c:1418] socket fd is set. set to inner
send/recv to handshake
[01-01 18:12:16 TUYA Debug][tuya_tls.c:1460] handshake finish for h2.iot-dns.com.
set send/recv to user set

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[01-01 18:12:16 TUYA Debug][tuya_tls.c:1473] TUYA_TLS Success Connect h2.iot-  
dns.com:443 CustomNet:TRUE Suit:TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256  
[01-01 18:12:16 TUYA Debug][iot_httpc.c:745] return chunked:0  
[01-01 18:12:16 TUYA Debug][tuya_tls.c:1555] TUYA_TLS Disconnect ENTER  
[01-01 18:12:16 TUYA Debug][tuya_tls.c:1610] TUYA_TLS Disconnect Success  
[01-01 18:12:16 TUYA Debug][iot_httpc.c:1354] httpurl:  
[http://a.tuyacn.com/d.json][42.192.25.216]  
[01-01 18:12:16 TUYA Debug][iot_httpc.c:1355] mqttUrl:[m2.tuyacn.com:1883]  
[42.192.30.165]  
[01-01 18:12:16 TUYA Debug][iot_httpc.c:1379] httpsSelfUrl:  
[https://a2.tuyacn.com/d.json][42.192.31.36]  
[01-01 18:12:16 TUYA Debug][iot_httpc.c:1380] mqttSelfUrl:[m2.tuyacn.com:8883]  
[42.192.30.165]  
[01-01 18:12:16 TUYA Debug][simplekv.c:1317] delete key:tls_ca_cnt isFuzzy:0  
[01-01 18:12:16 TUYA Debug][simplekv.c:1323] cnt:7 delete bit arr len:1  
[01-01 18:12:16 TUYA Debug][simplekv.c:1364] key:tls_ca_cnt not find  
[01-01 18:12:16 TUYA Debug][simplekv.c:1317] delete key:tls_ca isFuzzy:1  
[01-01 18:12:16 TUYA Debug][simplekv.c:1323] cnt:7 delete bit arr len:1  
[01-01 18:12:16 TUYA Debug][simplekv.c:1364] key:tls_ca not find  
[01-01 18:12:16 TUYA Debug][iot_httpc.c:1460] tls_ca_name:tls_ca0  
[01-01 18:12:16 TUYA Debug][simplekv.c:1188] read key:tls_ca0 isFuzzy:0 skipCnt:0  
[01-01 18:12:16 TUYA Debug][simplekv.c:1224] no key find  
[01-01 18:12:16 TUYA Debug][simplekv.c:1271] __read_kv_raw fail. -3  
[01-01 18:12:16 TUYA Debug][simplekv.c:1305] __read_kv_with_decode fail. -3  
[01-01 18:12:16 TUYA Debug][simplekv.c:355] write key:tls_ca0 And Value Len:2688  
[01-01 18:12:16 TUYA Debug][simplekv.c:438] new space 7 startpos:30248 size:2756  
[01-01 18:12:16 TUYA Debug][simplekv.c:464] new space. seek to end and write zero  
[01-01 18:12:16 TUYA Debug][simplekv.c:184] update crc 3278468003  
[01-01 18:12:16 TUYA Debug][simplekv.c:340] write head to normal file success  
[01-01 18:12:16 TUYA Debug][simplekv.c:501] write success  
[01-01 18:12:16 TUYA Debug][simplekv.c:1188] read key:tls_ca_cnt isFuzzy:0  
skipCnt:0  
[01-01 18:12:16 TUYA Debug][simplekv.c:1224] no key find  
[01-01 18:12:16 TUYA Debug][simplekv.c:1271] __read_kv_raw fail. -3  
[01-01 18:12:16 TUYA Debug][simplekv.c:1305] __read_kv_with_decode fail. -3  
[01-01 18:12:16 TUYA Debug][simplekv.c:355] write key:tls_ca_cnt And Value Len:16  
[01-01 18:12:16 TUYA Debug][simplekv.c:438] new space 8 startpos:33004 size:84  
[01-01 18:12:16 TUYA Debug][simplekv.c:464] new space. seek to end and write zero  
[01-01 18:12:16 TUYA Debug][simplekv.c:184] update crc 3887680969  
[01-01 18:12:16 TUYA Debug][simplekv.c:340] write head to normal file success  
[01-01 18:12:16 TUYA Debug][simplekv.c:501] write success  
[01-01 18:12:16 TUYA Debug][uni_network.c:438] set_dns_region:1  
[01-01 18:12:16 TUYA Debug][uni_network.c:318] cache dns  
[http://a.tuyacn.com/d.json]<->[42.192.25.216]  
[01-01 18:12:16 TUYA Debug][uni_network.c:318] cache dns  
[https://a2.tuyacn.com/d.json]<->[42.192.31.36]  
[01-01 18:12:16 TUYA Debug][uni_network.c:318] cache dns [m2.tuyacn.com:1883]<->  
[42.192.30.165]  
[01-01 18:12:16 TUYA Debug][uni_network.c:318] cache dns [m2.tuyacn.com:8883]<->  
[42.192.30.165]  
[01-01 18:12:16 TUYA Debug][simplekv.c:1188] read key:tls_ca_cnt isFuzzy:0  
skipCnt:0  
[01-01 18:12:16 TUYA Debug][simplekv.c:1228] find key:8 tls_ca_cnt  
[01-01 18:12:16 TUYA Debug][simplekv.c:1257] key:tls_ca_cnt find value.Len:16  
[01-01 18:12:16 TUYA Debug][tuya_tls.c:273] tls_ca_cnt:1 and parse:1  
[01-01 18:12:16 TUYA Debug][simplekv.c:1188] read key:tls_ca0 isFuzzy:0 skipCnt:0
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[01-01 18:12:16 TUYA Debug][simplekv.c:1228] find key:7 tls_ca0
[01-01 18:12:16 TUYA Debug][simplekv.c:1257] key:tls_ca0 find value.Len:2688
[01-01 18:12:16 TUYA Debug][tuya_tls.c:303] Parse DER tls_ca0:2002 success
[01-01 18:12:16 TUYA Debug][iot_httpc.c:1472] end
[01-01 18:12:17 TUYA Notice][ap_netcfg.c:166] exit ap_net_cfg task
[01-01 18:12:17 TUYA Notice][tuya_devos_netcfg.c:336] stop smt cfg mthd:4, ret:0
[01-01 18:12:17 TUYA Debug][iot_httpc.c:3185] modules:
[{"otaChannel":9,"softVer":"1.2.3","online":true}]
[01-01 18:12:17 TUYA Debug][iot_httpc.c:3188] options:
{"isFK":false,"otaChannel":0}
[01-01 18:12:17 TUYA Debug][iot_httpc.c:984] Post Data:
{"token":"ggawpjux","softVer":"1.2.3","productKey":"ot9nw0r4xbuyuvnw","protocolVer":"2.2","baselineVer":"40.00","modules":
[{"otaChannel":9,"softVer":"1.2.3","online":true}], "skillParam":
{"type":4,"skill":
{"localStorage":1,"cloudStorage":1,"webrtc":2,"video_num":0,"sdk_version":
"1.0.6"}},"devAttribute":3,"cadVer":"1.0.4","cdVer":"1.0.0","options":
{"isFK":false,"otaChannel":0},"t":2}
[01-01 18:12:17 TUYA Debug][iot_httpc.c:996] Post URL:
https://a2.tuyacn.com/d.json?
a=tuya.device.active&t=1&t=2&uuid=uuida16cac16c6e79959&v=4.4&sign=cd6064caf4c215
5025bea63c514687b9
[01-01 18:12:17 TUYA Debug][httpc.c:812] Connect: a2.tuyacn.com Port: 443 -->>
[01-01 18:12:17 TUYA Debug][uni_network.c:345] unw_gethostbyname a2.tuyacn.com,
prio 0

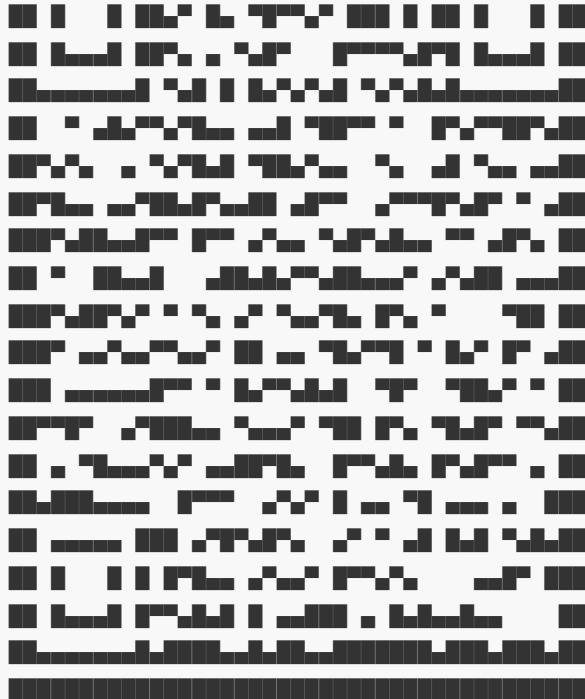
[01-01 18:12:17 TUYA Debug][uni_network.c:230] use dynamic dns ip 42.192.31.36
for domain a2.tuyacn.com

[01-01 18:12:17 TUYA Debug][httpc.c:476] ----got ipaddr:42,192,31,36
[01-01 18:12:17 TUYA Debug][httpc.c:814] Connect: a2.tuyacn.com Port: 443 --<<
,r:0
[01-01 18:12:17 TUYA Debug][tuya_tls.c:1201] ----
enable_cert:1,DEFAULT_LOAD_CERT:1
[01-01 18:12:17 TUYA Debug][tuya_tls.c:1242] TUYA_TLS Begin Connect
a2.tuyacn.com:443 CustomNet:TRUE Enable_Cert:TRUE Default:TRUE
[01-01 18:12:17 TUYA Debug][tuya_tls.c:1303] load tuya cert.
[01-01 18:12:17 TUYA Debug][tuya_tls.c:1308] parse crt <0> len <2002> ret <0>
[01-01 18:12:17 TUYA Debug][tuya_tls.c:1418] socket fd is set. set to inner
send/recv to handshake
[01-01 18:12:17 TUYA Debug][uni_thread.c:265] Thread:udp_ap_v3 Exec Finish. Set
to Del Stat
[01-01 18:12:17 TUYA Debug][uni_thread.c:125] del list not empty...deleting
[01-01 18:12:17 TUYA Debug][uni_thread.c:132] Final Free Thread:udp_ap_v3,
is_self:1
[01-01 18:12:17 TUYA Debug][uni_thread.c:138] delay to delete thread self
[01-01 18:12:17 TUYA Debug][uni_thread.c:149] finally delete thread self
[01-01 18:12:17 TUYA Debug][tuya_tls.c:1460] handshake finish for a2.tuyacn.com.
set send/recv to user set
[01-01 18:12:17 TUYA Debug][tuya_tls.c:1473] TUYA_TLS Success Connect
a2.tuyacn.com:443 CustomNet:TRUE Suit:TLS-ECDHE-RSA-WITH-AES-128-CBC-SHA256
```



```
[01-01 18:12:17 TUYA Debug][iot_httpc.c:663] Decode Rev:{"result":{"schema":
[{"type":"obj","mode":"rw","property":{"type":"bool"},"id":2},
{"type":"obj","mode":"rw","property":{"range":
["standby","random","smart","wall_follow","mop","spiral","left_spira
l","right_spiral","left_bow","right_bow","partial_bow","chargego"],"t
ype":"enum"},"id":3},{"type":"obj","mode":"ro","property":
{"range":
["standby","smart_clean","wall_clean","spot_clean","mop_clean","goto_c
harge","charging","charge_done","paused","cleaning","sleep"],"type":
"enum"},"id":5}],"devId":"6c1ee191d26acccc34r0ix","resetFactory":false,"time
zone":"+08:00","capability":1025,"secKey":"3s6DmGz]Q;
(kb.qx","stdTimeZone":"+08:00","schemaId":"egew9c","dstIntervals":
[],"localKey":"Kx3}X8w8HX&<uMHR"},"t":1686043649,"success":true}
[06-07 03:39:44 TUYA Debug][tuya_tls.c:1555] TUYA_TLS Disconnect ENTER
[06-07 03:39:44 TUYA Debug][tuya_tls.c:1610] TUYA_TLS Disconnect Success
[06-07 03:39:44 TUYA Debug][tuya_devos_activate.c:189] cloud_reset:0
local_reset:1
[06-07 03:39:44 TUYA Debug][tuya_devos_activate.c:235] __tmm_gw_actv_work: reset
stride flag.
[06-07 03:39:44 TUYA Debug][tuya_devos_entry.c:1451] write stride to flash:0
[06-07 03:39:44 TUYA Debug][simplekv.c:1188] read key:is_stride isFuzzy:0
skipCnt:0
[06-07 03:39:44 TUYA Debug][simplekv.c:1224] no key find
[06-07 03:39:44 TUYA Debug][simplekv.c:1271] __read_kv_raw fail. -3
[06-07 03:39:44 TUYA Debug][simplekv.c:1305] __read_kv_with_decode fail. -3
[06-07 03:39:44 TUYA Debug][simplekv.c:355] write key:is_stride And Value Len:16
[06-07 03:39:44 TUYA Debug][simplekv.c:438] new space 9 startpos:33088 size:84
[06-07 03:39:44 TUYA Debug][simplekv.c:464] new space. seek to end and write zero
[06-07 03:39:44 TUYA Debug][simplekv.c:184] update crc 333790315
[06-07 03:39:44 TUYA Debug][simplekv.c:340] write head to normal file success
[06-07 03:39:44 TUYA Debug][simplekv.c:501] write success
[06-07 03:39:44 TUYA Debug][tuya_ws_db.c:303] write buf:
{"abi":0,"id":"6c1ee191d26acccc34r0ix","swv":"1.2.3","bv":"40.00","pv":"2.2","lpv
":"3.3","pk":"ot9nw0r4xbuyuvnw","firmk":null,"cadv":"1.0.4","cdv":"1.0.0","dev_sw
v":"1.2.3","s_id":"egew9c","dtp":0,"sync":0,"attr_num":1,"mst_tp_0":9,"mst_ver_0"
:"1.2.3","mst_tp_1":0,"mst_ver_1":null,"mst_tp_2":0,"mst_ver_2":null,"mst_tp_3":0
,"mst_ver_3":null }
[06-07 03:39:44 TUYA Debug][simplekv.c:1188] read key:gw_di isFuzzy:0 skipCnt:0
[06-07 03:39:44 TUYA Debug][simplekv.c:1228] find key:2 gw_di
[06-07 03:39:44 TUYA Debug][simplekv.c:1257] key:gw_di find value.Len:320
[06-07 03:39:44 TUYA Debug][simplekv.c:355] write key:gw_di And Value Len:352
[06-07 03:39:44 TUYA Debug][simplekv.c:378] 2 key same AND size old 388 >= new
352
[06-07 03:39:44 TUYA Debug][simplekv.c:411] find 2 available space
[06-07 03:39:44 TUYA Debug][simplekv.c:455] reuse available space 29172
[06-07 03:39:44 TUYA Debug][simplekv.c:184] update crc 1180844391
[06-07 03:39:44 TUYA Debug][simplekv.c:340] write head to normal file success
[06-07 03:39:44 TUYA Debug][simplekv.c:501] write success
[06-07 03:39:44 TUYA Debug][ws_db_gw.c:373] gw_di write success
[06-07 03:39:44 TUYA Debug][simplekv.c:1188] read key:egew9c isFuzzy:0 skipCnt:0
[06-07 03:39:44 TUYA Debug][simplekv.c:1224] no key find
[06-07 03:39:44 TUYA Debug][simplekv.c:1271] __read_kv_raw fail. -3
[06-07 03:39:44 TUYA Debug][simplekv.c:1305] __read_kv_with_decode fail. -3
[06-07 03:39:44 TUYA Debug][simplekv.c:355] write key:egew9c And Value Len:480
[06-07 03:39:44 TUYA Debug][simplekv.c:438] new space 10 startpos:33172 size:548
[06-07 03:39:44 TUYA Debug][simplekv.c:464] new space. seek to end and write zero
```

```
[06-07 03:39:44 TUYA Debug][simplekv.c:184] update crc 4207481985
[06-07 03:39:44 TUYA Debug][simplekv.c:340] write head to normal file success
[06-07 03:39:44 TUYA Debug][simplekv.c:501] write success
[06-07 03:39:44 TUYA Debug][ws_db_gw.c:609] schema write success
[06-07 03:39:44 TUYA Debug][tuya_devos_utils.c:872] create dev_cntl Success
[06-07 03:39:44 TUYA Debug][tuya_ipc_sdk_init.c:120] ON post active:0x7f70003060
[06-07 03:39:44 TUYA Debug][tuya_ws_db.c:303] write buf:{"key":"3s6DmGz]Q;
(kb.qx","lckey":"Kx3)X8w8HX&
<uMHR","h_url":"http://a.tuyacn.com/d.json","h_ip":"42.192.25.216","hs_url":"http
s://a2.tuyacn.com/d.json","hs_ip":"42.192.31.36","hs_psk":null,"hs_psk_ip":null,"
mqs_url":"m2.tuyacn.com:8883","mqs_ip":"42.192.30.165","mq_url":"m2.tuyacn.com:18
83","mq_ip":"42.192.30.165","ai_sp":null,"ai_sp_ip":null,"mq_psk":null,"mq_psk_ip
":null,"lp_url":null,"lp_ip":null,"time_z":"+08:00","s_time_z":""
[]","wx_app_id":null,"wx_uid":null,"dy_tls_m":0,"cloud_cap":1025,"psk21_key":nul
l }
[06-07 03:39:44 TUYA Debug][simplekv.c:1188] read key:gw_ai isFuzzy:0 skipCnt:0
[06-07 03:39:44 TUYA Debug][simplekv.c:1228] find key:3 gw_ai
[06-07 03:39:44 TUYA Debug][simplekv.c:1257] key:gw_ai find value.Len:368
[06-07 03:39:44 TUYA Debug][simplekv.c:355] write key:gw_ai And Value Len:528
[06-07 03:39:44 TUYA Debug][simplekv.c:375] 3 key same BUT size old 436 < new 528
need find new hd
[06-07 03:39:44 TUYA Debug][simplekv.c:438] new space 11 startpos:33720 size:596
[06-07 03:39:44 TUYA Debug][simplekv.c:464] new space.seek to end and write zero
[06-07 03:39:44 TUYA Debug][simplekv.c:184] update crc 2960282849
[06-07 03:39:44 TUYA Debug][simplekv.c:340] write head to normal file success
[06-07 03:39:44 TUYA Debug][simplekv.c:501] write success
[06-07 03:39:44 TUYA Debug][ws_db_gw.c:520] gw_ai write success
[06-07 03:39:44 TUYA Debug][tuya_ws_db.c:303] write buf:
{"nc_tp":6,"ssid":"dHV5YQ==","passwd":"dHV5YQ==","md":0,"random":0,"wfb64":1,"sta
t":2,"token":"ggawpjUX","region":"AY","reg_key":"3xx0","dns_prio":0 }
[06-07 03:39:44 TUYA Debug][simplekv.c:1188] read key:gw_wsm isFuzzy:0 skipCnt:0
[06-07 03:39:44 TUYA Debug][simplekv.c:1228] find key:1 gw_wsm
[06-07 03:39:44 TUYA Debug][simplekv.c:1257] key:gw_wsm find value.Len:144
[06-07 03:39:44 TUYA Debug][simplekv.c:355] write key:gw_wsm And Value Len:160
[06-07 03:39:44 TUYA Debug][simplekv.c:378] 1 key same AND size old 212 >= new
160
[06-07 03:39:44 TUYA Debug][simplekv.c:411] find 1 available space
[06-07 03:39:44 TUYA Debug][simplekv.c:455] reuse available space 28960
[06-07 03:39:44 TUYA Debug][simplekv.c:184] update crc 554813653
[06-07 03:39:44 TUYA Debug][simplekv.c:340] write head to normal file success
[06-07 03:39:44 TUYA Debug][simplekv.c:501] write success
[06-07 03:39:44 TUYA Debug][ws_db_gw.c:227] gw_wsm write success
[06-07 03:39:44 TUYA Debug][tuya_ipc_sdk_simple_start.c:71] Net status change
to:1
[06-07 03:39:44 TUYA Debug][user_main.c:115] Net status change to:1
[06-07 03:39:44 TUYA Debug][wifi_netcfg_frame_transporter.c:451] ----destroy
Transporter,session:0x5864a0
[06-07 03:39:44 TUYA Notice][tuya_devos_entry.c:546] skip gw actived again
eth0: error fetching interface information: Device not found
WIFI[0] Get IP:
eth0: error fetching interface information: Device not found
WIFI[0] Get IP:
[06-07 03:39:56 TUYA Debug][tuya_devos_health.c:30] feed watchdog
eth0: error fetching interface information: Device not found
WIFI[0] Get IP:
eth0: error fetching interface information: Device not found
```

```
08:21:59 TRACE iotdns.c:145: out post data len:100, data:{"config":
[{"key":"httpsSelfUrl","need_ca":true},
{"key":"mqttSelfUrl","need_ca":true}], "env":"pro"}
08:21:59 DEBUG iotdns.c:170: http request send!
08:21:59 DEBUG network_wrapper.c:100: Loading the CA root certificate...
08:21:59 DEBUG network_wrapper.c:108: ok (0 skipped)
08:21:59 DEBUG network_wrapper.c:133: Connecting to h2.iot-dns.com/443...
08:21:59 DEBUG network_wrapper.c:155: ok
08:21:59 DEBUG network_wrapper.c:160: Setting up the SSL/TLS structure...
08:21:59 DEBUG network_wrapper.c:198: SSL state connect: 0
08:21:59 DEBUG network_wrapper.c:199: Performing the SSL/TLS handshake...
08:21:59 DEBUG network_wrapper.c:216: TLS handshake complete.
08:21:59 DEBUG network_wrapper.c:217: Release CA x509 parse.
08:21:59 DEBUG network_wrapper.c:220: ok
    [ Protocol is TLSv1.2 ]
    [ Ciphersuite is TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256 ]

08:21:59 DEBUG network_wrapper.c:223:      [ Record expansion is 21 ]

08:21:59 DEBUG http_client_wrapper.c:134: tls connencted!
08:21:59 DEBUG http_client_wrapper.c:159: http request send!
08:21:59 DEBUG http_client_wrapper.c:44: HTTP header add key:value
key=Content-Type : value=application/x-www-form-urlencoded; charset=UTF-8
08:21:59 INFO http_client_wrapper.c:65: Sending HTTP POST request to h2.iot-
dns.com/v2/url_config
08:22:00 TRACE http_client_wrapper.c:90: Response Headers:
content-length: 2856
date: Tue, 06 Jun 2023 08:22:00 GMT
content-type: text/plain; charset=utf-8
server: https
Response Status:
200
Response Body:
```

```
{"caArr":  
["MIIHzjCCBrYCCQCMf1925A1BQjANBgkqhkiG9w0BAQsFADCCAqYxCzAJBgNVBAYTA1VTMRMwEQYDVQ  
IDApDYWxpZm9ybmlhbmREWdWYDVQQHDAhTYW4gSm9zZTEZMBCGA1UECgwQVHV5YSBhBg9iYwWgSW5jLjEV  
MBMGA1UEAwMKi50dx1hy24uY29tMRUwEwYDVQQDDAwqLnR1ewF1ds5jb20xFTATBgnVBAMMDcoudHV5Y  
XJmLmNvbTEVMBMGA1UEAwMKi50dx1hanAuY29tMRUwEwYDVQQDDAwqLnR1ewFpbi5jb20xFTATBgnVBA  
MMDcoudHV5YWFzLmNvbTEVMBMGA1UEAwMKi50dx1hyWYuY29tMRUwEwYDVQQDDAwqLnR1ewFzYS5jb20  
xFDASBgNVBAMMCyou2dpcmUuY29tMRYwFAYDVQQDDA0qLnR1ewEtaW5jLmNMRUwEwYDVQQDDAwqLnR1  
ewF1cy5jb20xEzARBgnVBAMMCioudHV5YS5jb20xDTALBgnVBASMBFR1ewEXITAfBgkqhkiG9w0BCQEW  
m1vdf93b3jsZEB0dx1hLmNvbTEVMBMGA1UdEQwMKi50dx1hdXMuy29tMRUwEwYDVRODAwqLnR1ewFjbi  
5jb20xFTATBgnVHREMDcoudHV5YwV1LmNvbTEUMBIGA1UdEQwLKi53Z21uZS5jb20xFjAUBgnVHREMDSo  
udHV5YS1pbmMuY24xFTATBgnVHREMDcoudHV5YwplmNvbTEVMBMGA1UdEQwMKi50dx1haw4uY29tMRUw  
EwYDVRODAwqLnR1ewFhcy5jb20xFTATBgnVHREMDcoudHV5YwFmLmNvbTEVMBMGA1UdEQwMKi50dx1hc  
2EuY29tMRUwEwYDVRODAwqLnR1ewFyzi5jb20xEzARBgnVHREMCioudHV5YS5jb20wIBCnMTgxMDMxMD  
UZMDQ4whgPMjExODEwMDCwNTMwNDhamIICpjELMAkGA1UEBhMCVVMxEzARBgnVBAGMCKNhbg1mb3Juawe  
xETAPBgNVBACMFNhb1Bkb3N1MRkwFwYDVQQKDBBudX1hIEdsb2JhbCBjb1bmMuMRUwEwYDVQQDDAwqLnR1  
ewFjbi5jb20xFTATBgnVBAMMDcoudHV5YwV1LmNvbTEVMBMGA1UEAwMKi50dx1hcmYuY29tMRUwEwYDV  
QQDDAwqLnR1ewFqcC5jb20xFTATBgnVBAMMDcoudHV5Yw1uLmNvbTEVMBMGA1UEAwMKi50dx1hyXMuY2  
9tMRUwEwYDVQQDDAwqLnR1ewFhzi5jb20xFTATBgnVBAMMDcoudHV5YXNhLmNvbTEUMBIGA1UEAwLKi5  
3Z21uZS5jb20xFjAUBgnVBAMMDsoudHV5YS1pbmMuY24xFTATBgnVBAMMDcoudHV5YXVzLmNvbTETMBEG  
A1UEAwKKi50dx1hLmNvbTENMASGA1UECwwEVHV5YTEhMB8GCSqS1b3DQEJARYSaw90X3dvcmxkQHR1e  
WEuY29tMRUwEwYDVRODAwqLnR1ewF1cy5jb20xFTATBgnVHREMDcoudHV5YwNuLmNvbTEVMBMGA1UdEQ  
wMKi50dx1hzXuuy29tMRQwEgYDVRODAwqLnR1ewF1cy5jb20xFTATBgnVHREMDcoudHV5YwV1LmNvbTEWMBQGA1UdEQwNKi50dx1hLw1uYy5jbje  
VMBMGA1UdEQwMKi50dx1hanAuY29tMRUwEwYDVRODAwqLnR1ewFpbi5jb20xFTATBgnVHREMDcoudHV5  
YWFzLmNvbTEVMBMGA1UdEQwMKi50dx1hyWYuY29tMRUwEwYDVRODAwqLnR1ewFzYS5jb20xFTATBgnVH  
REMDcoudHV5YXJmLmNvbTETMBEGA1UdEQwKKi50dx1hLmNvbTCCASIwDQYJKoZIhvcNAQEBBQADggEPAD  
CCAQoCggEBALac/mvDYSFT9b+fdAovDbvi3Pbiho3F2ZInVEMua7tJtxcc9f3qFivqs6/w/DVHO1Dzph  
OnKLj8bGZ3G4n+XX2qxwiVuk20p5YmwoEbiyiAF7XcqXw1zn/Eg2c5TTCUJGf1lRLSaeXDrCox7EEKGZ6  
Epev+pgmNYzbwRwCkjiFhX1shq7exLyA/IpZko+3ZD4cccLMqE7adhTj4i9Qne9Uor19h+1wkdmUKGc0q5  
zyziwSnr4zQhIobH3INT2Ndrz80czu7Iem5egLeiowoJ6XSVtfkzuosVVjZl/foymDkWBKR7K8YX1qHX7  
8KhjrU6AhjbbHDLZ3700feiRHcz/kCAWEAATANBgkqhkiG9w0BAQsFAAOCAQEALRRv+amZHP1fAkGXrWI  
tyax1lch/GwqmdmwJZRVU1wrCp/Gnh1a7Yv8i04T+3FeaAcnN067a9iu+15OC6HMUu1R2/wx+dYrpxa5+  
QcDb+pv3davUko0mfuOZ1LwkqKiRFAatapn1h7LhcofTNzai0VmdqMO1PICS4411DYFdzy+JFIfpiv61k  
DpfyG+hPxnIrBhwgquHuXCMundB+7N9L1oMcCQKoG5DR9Itwofpf1sG1SC10rt+nDkzq+8Lb/Ry5oUa  
HY+rHDIPIFonnh5ATeF089Jj1Tqo0vvqKPoLxouQnVvZsGLA10YrkMrpNqyatKrvWZiQGgm2GPGYY8pca=  
="], "httpsSelfurl": {"addr": "https://a2.tuyacn.com/d.json", "ips":  
["42.192.31.36"]}, "mqttsSelfurl": {"addr": "m2.tuyacn.com:8883", "ips":  
["42.192.30.165"]}, "psk_key": "", "ttl": 600}
```

```
08:22:00 TRACE iotdns.c:83: httpsSelfurl:https://a2.tuyacn.com/d.json  
08:22:00 TRACE iotdns.c:84: mqttsSelfurl:m2.tuyacn.com:8883  
08:22:00 TRACE iotdns.c:90: endpoint->atop.host = "a2.tuyacn.com"  
08:22:00 TRACE iotdns.c:91: endpoint->atop.port = 443  
08:22:00 TRACE iotdns.c:92: endpoint->atop.path = "/d.json"  
08:22:00 TRACE iotdns.c:97: endpoint->mqtt.host = "m2.tuyacn.com"  
08:22:00 TRACE iotdns.c:98: endpoint->mqtt.port = 8883  
08:22:00 INFO mqtt_service.c:505: clientid:acon_26fefa8c80223391e0sivh  
08:22:00 INFO mqtt_service.c:506: username:acon_26fefa8c80223391e0sivh  
08:22:00 DEBUG mqtt_service.c:507: password:fe1d479844e3d64f  
08:22:00 INFO mqtt_service.c:508: topic_in:d/ai/26fefa8c80223391e0sivh  
08:22:00 INFO mqtt_service.c:509: topic_out:  
08:22:00 INFO mqtt_service.c:510: tuyu_mqtt_start...  
08:22:00 DEBUG network_wrapper.c:100: Loading the CA root certificate...  
08:22:00 DEBUG network_wrapper.c:108: ok (0 skipped)  
08:22:00 DEBUG network_wrapper.c:133: Connecting to m2.tuyacn.com/8883...  
08:22:00 DEBUG network_wrapper.c:155: ok  
08:22:00 DEBUG network_wrapper.c:160: Setting up the SSL/TLS structure...
```

```
08:22:00 DEBUG network_wrapper.c:198: SSL state connect: 0
08:22:00 DEBUG network_wrapper.c:199: Performing the SSL/TLS handshake...
08:22:00 DEBUG network_wrapper.c:216: TLS handshake complete.
08:22:00 DEBUG network_wrapper.c:217: Release CA x509 parse.
08:22:00 DEBUG network_wrapper.c:220: ok
    [ Protocol is TLSv1.2 ]
    [ Ciphersuite is TLS-ECDHE-RSA-WITH-CHACHA20-POLY1305-SHA256 ]

08:22:00 DEBUG network_wrapper.c:223:      [ Record expansion is 21 ]

08:22:00 DEBUG mqtt_client_wrapper.c:169: TLS connected.
08:22:00 ERROR mqtt_client_wrapper.c:189: mqtt connect err: Connection not
authorized(11)
08:22:00 ERROR mqtt_service.c:517: MQTT connect fail:3
08:22:00 ERROR mqtt_bind.c:110: tuyu mqtt connect fail:-7692, retry..
^C
```