

Full crash doc oct 21 2020

full dump and some code

```
Exception 29: StoreProhibited: A store referenced a page mapped with an attribute that does not permit stores
PC: 0x4021ebee: append_string at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\mqtt_msg.c line 45
EXCVADDR: 0x00000003
```

Decoding stack results

```
0x4021ecc0: mqtt_msg_publish at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\mqtt_msg.c line 355
0x4021ecc9: mqtt_msg_publish at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\mqtt_msg.c line 355
0x401003a4: uart_isr (C:\Program Files at
x86)\Arduino\portable\packages\esp8266\hardware\esp8266\2.5.0\cores\esp8266\uart.c line 149
0x4021f0e7: publish_topic at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\mqtt_server.c line 72
0x402204a8: QUEUE_Puts at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\queue.c line 43
0x4022d488: etharp_send_ip at netif\etharp.c line 435
0x402200a8: find_topic at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\mqtt_topiclist.c line 73
0x4021f090: publish_topic at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\mqtt_server.c line 57
0x4021f38b: MQTT_server_deleteClientCon at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-
master\src\mqtt_server.c line 217
0x4021f436: MQTT_server_disconnectClientCon at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-
master\src\mqtt_server.c line 263
0x4021f57c: delete_client_by_id at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\mqtt_server.c
line 284
0x4021f584: delete_client_by_id at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\mqtt_server.c
line 287
0x4021f824: MQTT_ClientCon_recv_cb at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\mqtt_server.c
line 424
0x4021f848: MQTT_ClientCon_recv_cb at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\mqtt_server.c
line 429
0x4010020c: __digitalWrite (C:\Program Files at
x86)\Arduino\portable\packages\esp8266\hardware\esp8266\2.5.0\cores\esp8266\core_esp8266_wiring_digital.c line 80
0x4022e90c: ip_output_if at core/ipv4/ip.c line 631
0x4022bc40: tcp_create_segment at core/tcp_out.c line 166
0x4022e948: ip_output at core/ipv4/ip.c line 817
0x4022c4c2: tcp_output at core/tcp_out.c line 990
0x40228019: espconn_tcp_sent at app/espconn_tcp.c line 511
0x40100220: __digitalWrite (C:\Program Files at
x86)\Arduino\portable\packages\esp8266\hardware\esp8266\2.5.0\cores\esp8266\core_esp8266_wiring_digital.c line 82
0x402283cc: espconn_tcp_write at app/espconn_tcp.c line 762
0x40226d93: espconn_sent at app/espconn.c line 421
```

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0x402204bf: QUEUE_Gets at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\queue.c line 47
0x4021f511: MQTT_ServerTask at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\mqtt_server.c line
909
0x401003a4: uart_isr (C:\Program Files at
x86)\Arduino\portable\packages\esp8266\hardware\esp8266\2.5.0\cores\esp8266\uart.c line 149
0x401007ec: _umm_malloc (C:\Program Files at
x86)\Arduino\portable\packages\esp8266\hardware\esp8266\2.5.0\cores\esp8266\umm_malloc\umm_malloc.c line 1432
0x4022aa99: pbuf_free at core/pbuf.c line 758
0x4010062c: _umm_free (C:\Program Files at
x86)\Arduino\portable\packages\esp8266\hardware\esp8266\2.5.0\cores\esp8266\umm_malloc\umm_malloc.c line 1290
0x4022821a: espconn_server_recv at app/espconn_tcp.c line 1111
0x40230f80: tcp_input at core/tcp_in.c line 394
0x4010020c: __digitalWrite (C:\Program Files at
x86)\Arduino\portable\packages\esp8266\hardware\esp8266\2.5.0\cores\esp8266\core_esp8266_wiring_digital.c line 80
0x40220000: delete_topic at C:\Users\r\Documents\Arduino\libraries\uMQTTBroker-master\src\mqtt_topiclist.c line
51
0x4010020c: __digitalWrite (C:\Program Files at
x86)\Arduino\portable\packages\esp8266\hardware\esp8266\2.5.0\cores\esp8266\core_esp8266_wiring_digital.c line 80
0x4022e66d: ip_input at core/ipv4/ip.c line 559
0x4022da71: ethernet_input at netif/etharp.c line 1379

```

Some important code sections ... I stripped some not needed text for a better reading

```

#define IDSTRING " OCT 20 2020 Ver 25CRASHTEST CV_Enhanced_BROKER247 "

..... I am using IwIP 1.4 High

#include <PubSubClient.h> // PubSub makes this a CLIENT
#endif

#include "uMQTTBroker.h"
#include <ESP8266WiFi.h>

// Used to extend client connections to 8
extern "C" {
#include "espconn.h"
}

.....
WiFiClient wifiClient; //

```



```

        Serial.println(" *****gggggg CLIENT COUNT = " +
String(HS3BrokerClientConnectionCount)); // PRINTs whenever a CLIENT is connected
#endif

        MQTTCONNECTED = true;          // Stop fast flashing the R/G LEDs... managed in loop

        /* Indicate Connection with the RED LED
           Set a flag and let loop do the work
        */
        ONCONNECTFLAG = true;          // Trigger the Connection LED to flash... in loop

        return true;
    }
    //.....

    virtual bool onAuth(String username, String password) {

        return true;
    }
    //.....

    virtual void onData(String topic, const char *data, uint32_t length) // Standard & Original
    {
// push topic into a string with NULL
        char zbuffer2[244];
        int ix = 0;

        ix = 0;
        while (topic[ix] != NULL)
        {
            zbuffer2[ix] = topic[ix];
            ix++;
        } // END while
        // FINALLY, MUST now manually pack a NULL
        zbuffer2[ix] = NULL; // and zbuffer now has a topic as text string

        // 2020 ENABLE This for Testing

```

```

    ///Serial.println(" !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!  onData DISPLAY... topic is " + String(zbuffer2));

    /*
    Looking for broker connection to HomeSEER
    */
    if (String(zbuffer2) == HomeSEER_PC_ConnectionID)  //
    {
        // NOW Increment the counter  because we connected to HS3
        RTC_StructureFlags_WRITE(REConnectToHS3_INCREMENT);

        //ggggggggggggggggggggggggg
        Serial.println("\t\t\t\t\t\t\t !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!  YES Connected to HomeSEER mqtt  !!!!!!!!!!!!!!!!!!!!!!!
");
        //gggggggg  CRASH RIGHT AFTER THIS
    }

    /*  Indicate Connection with the RED LED
        Set a flag and let loop do the work
    */
    ONDATAFLAG = true;          // Trigger the Connection LED to flash... in loop

    } // END    virtual void onData
}; // END

LocalMQTTBroker CV_Broker;      // END  class LocalMQTTBroker : public uMQTTBroker
                                //CV_Broker is what the function is called throughout code

.....

//... sss .....
void setup()
{
    STUFF and..

// *****  ALLOW 8 CLIENTS  *****
    //NOTE Connections parameter ONLY works with IwIP 1.4 and NOT 2.0!!!
    //Using this to increase connectons from 5 to the max of 8
    espconn_tcp_set_max_con(8); // mar 20 Validated that this is working

#endif //*****

```

```

//..... START WIFI .....
Serial.println("Calling for WiFiClient STATION Mode");
StartWiFi_IwIP14(); // Special routine for starting a IwIP1.4 Network

// ..... Start the LOCAL server and MESH broker 247 .....

// MAY 20 think this assigns things but Allows AUTO IP for Broker/Device
MQTT_server_start(1883, 30, 30);
Serial.println("Starting LOCAL MQTT server for MESH Broker 247");
CV_Broker.init(); // Creating an instance of the mqtt BROKER

#ifdef PRINTDIAG1
//Serial.println("Creating an instance of the mqtt BROKER");
#endif
/* Subscribe to anything */
CV_Broker.subscribe("#");

#ifdef PRINTDIAG1
Serial.print("LOCAL BROKER Connected to IP address: ");
Serial.println(WiFi.localIP());
Serial.print("\n\n");
} // END SETUP

```