



boat

vitals

Tomorrow's best of breed solutions delivered today

BOAT MONITORING

DATA INPUT, TRANSPORT, BLEND, CONTROLLING AND INFORMATION

BOAT-VITALS – DIAGNOSTICS

LOG

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MAIN
PORT: COM11 [Refresh] [Disconnect] [Get Configuration]

LOG
SSID[N/A] PASS[N/A]
23:21:03: 00 MON[3072] MIN[16]
23:21:03: 0 WAT_M: VALUE[00 3565]
23:21:03: 000000000000000000000000
000000000000000000000000000000
MEM: [36116]
23:21:09: 000000000000000000000000
000000000000000000000000000000
000000000000000000000000000000
000000000000000000000000000000
23:21:13: 0 WAT_M: VALUE[00 3664]
23:21:13:
[Copy To Clipboard] [Clear]

SITE
SITE ID: []
DEVICE ID: []
SECRET HASH: []

WIFI
SSID: N/A
PASS: N/A
[Send to EndpointAdvance]

MOBILE
APN: pp.vodafone.co.uk
APN USER: wap
APN PASS: wap
[Send to EndpointAdvance]

All diagnostics is done using the log.

Download and install USB driver for your Endpoint from:
<https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers>

Download and install the Advanced Endpoint Configurator from :
<http://www.boat-vitals.com/setup.html>

1. Connect the device using USB to micro USB cable.
2. Start Advanced Endpoint configurator
3. Click "Refresh"
4. Click "Connect"
5. Click "Get Configuration"
6. IF all is OK the SSID, PASS, APN, APN USER, APN PASS should be filled with values. - if not check the connection.

SETUP WITH (WIFI+GPRS/GSM + IoT)

```
ets Jun  8 2016 00:22:57
07:29:09: rst:0x1 (POWERON_RESET),boot:0x17 (SPI_FAST_FLASH_BOOT)
07:29:09: configsip: 0, SPIWP:0xee
07:29:09: clk_drv:0x00,q_drv:0x00,d_drv:0x00,cs0_drv:0x00,hd_drv:0x00,wp_drv:0x00
07:29:09: mode:DIO, clock div:1
07:29:09: load:0x3fff0018,len:4
07:29:09: load:0x3fff001c,len:812
07:29:09: load:0x40078000,len:0
07:29:09: load:0x40078000,len:11572
07:29:09: entry 0x40078a5c
*UPPER SECTION MEANING: DEVICE IS RESET – ALL GOOD
07:29:09: Initialized: SERIAL_LOG64
07:29:11: ID: S_ID[ 10 ] D_ID[ 103 ] WIFI_SSID[ PLUSNET-7F63NX ] WIFI_PASS[ 4e3acd6a4f ]
GPRS_APN[ pp.vodafone.co.uk ] GPRS_USER[ wap ] GPRS_PASS[ wap ]
07:29:11: Ver.#2.14.588
07:29:11: LED MONITOR: INIT
07:29:11: START_V: Characterized using eFuse Vref.
07:29:11: START_V: INIT
07:29:11: HOUSE_V: Characterized using eFuse Vref.
07:29:11: HOUSE_V: INIT
07:29:11: BAT_V: INIT
07:29:11: OPTIONAL_V: Characterized using eFuse Vref.
07:29:11: OPTIONAL_V: INIT
07:29:11: WAT_M: INIT
07:29:11: DHT: INIT
07:29:13: RF: INIT
07:29:14: DISPLAY: INIT START
07:29:14: DISPLAY: INIT END
*UPPER SECTION MEANING: GAUGES INITIALIZED – ALL GOOD
```

Example log in the left.

In case some of the possible transports are not available or not configured – e.g. GPRS./GSM is not configured you will see message like (which are expected and normal) :

```
07:34:05: GPRS: RESPONSE[ ERROR ]
07:34:08: GPRS: RESPONSE NOT EXPECTED - RESET
07:34:08: GPRS: COMMAND[ AT+CFUN=15 ] SIZE[ 11 ]
07:34:08: GPRS: RESPONSE[ OK ]
```

Etc.

If WiFi is not available or not configured you will see messages like (which are expected and normal):

```
WIFI: SEND DATA SYNC: Connecting to SSID[ N/A ] PASS[ N/A ] <
07:25:51: > Can't connect for 30sec
```

```
07:26:50: WIFI : Schedule connecting to SSID[ N/A ] PASS[ N/A ]
```

CONTINUE...

07:29:14: Connecting to SSID[PLUSNET-7F63NX] PASS[4e3acd6a4f] <

07:29:14: 1

07:29:15: 2

07:29:16: 3

07:29:17: > Connected for 3 sec IP[192 . 168 . 1 . 16]

*UPPER SECTION MEANING: CONNECTED TO WIFI – ALL GOOD

07:29:18: WIFI: INIT

07:29:18: Version: v3.1-dev-661-gf586f5e6

07:29:18: GPRS: TRY RECONFIG BAUD

07:29:19: 2400

07:29:20: 4800

07:29:21: 9600

07:29:22: 14400

07:29:23: 19200

07:29:24: 28800

07:29:25: 38400

07:29:26: 57600

07:29:27: 115200

07:29:29: 230400

07:29:30: 460800

07:29:31: GPRS: ECHO OFF

07:29:36:

07:29:36: O K

07:29:36:

07:29:36:

07:29:37: GPRS: INIT

*UPPER SECTION MEANING: INITIALIZING GPRS/GSM– ALL GOOD

07:29:37: GPS:INIT

07:29:37: BLE: INIT

*UPPER SECTION MEANING: INITIALIZING GPS AND BLUETOOTH– ALL GOOD

07:29:37: HEARTBEAT CALL WITH : TRUE - *GENERATED "I'm here" MESSAGE TO SERVER

07:29:37: OPER: GET_HEARTBEAT_INFO_AND_SYNC SITE_ID[0] LAST PACKET TIME[0]

07:29:37: HEARTBEAT INFO ASYNC SENT GPRS - *SCHEDULED to be send over GPRS/GSM

07:29:37: WIFI: SEND DATA SYNC : CONNECTED HOST:PORT[server.boat-vitals.com : 5409]

07:29:38: WIFI: SEND DATA SYNC: SIZE[8]

07:29:38: WIFI: TRASFER TIME[601]

07:29:38: HEARTBEAT INFO SYNC SENT

07:29:38: HEARTBEAT : SERVER TIME[4157985904]

*UPPER SECTION MEANING: SENT OVER WIFI AND RESONSE RECEIVED – ALL GOOD

07:29:38: MON[1344] MIN[7]

07:29:38: GPRS: WORKER START

07:29:38: GPRS: COMMAND[AT+CPIN?] SIZE[9]

07:29:38: MEM: [34672]

07:29:39: GPRS: RESPONSE[+CPIN: READY]

07:29:43: GPRS: RESPONSE[OK]

07:29:43: GPRS: COMMAND[AT+CREG?] SIZE[9]

07:29:43: MON[1344] MIN[7]

07:29:48: GPRS: RESPONSE[+CREG: 0,1]

07:29:48: GPRS: RESPONSE[OK]

07:29:48: GPRS: COMMAND[AT+CSQ] SIZE[7]

07:29:48: GPRS: SIGNAL[22]

07:29:48: GPRS: RESPONSE[OK]

07:29:48: GPRS: COMMAND[AT+XISP=0] SIZE[10]

07:29:48: GPRS: RESPONSE[OK]

07:29:48: GPRS: COMMAND[AT+CGDCONT=1,"IP","pp.vodafone.co.uk"] SIZE[38]

07:29:48: GPRS: RESPONSE[OK]

07:29:48: GPRS: COMMAND[AT+XGAUTH=1,1,"wap","wap"] SIZE[26]

07:29:48: GPRS: RESPONSE[OK]

07:29:48: GPRS: COMMAND[AT+CGATT=1] SIZE[11]

07:29:48: GPRS: RESPONSE[OK]

07:29:51: GPRS: COMMAND[AT+CGATT?] SIZE[10]

07:29:51: GPRS: RESPONSE[+CGATT: 1]

07:29:56: GPRS: RESPONSE[OK]

07:29:56: GPRS: COMMAND[AT+XIIC=1] SIZE[10]

CONTINUE...

```

07:29:56: GPRS: RESPONSE[ OK ]
07:29:56: GPRS: COMMAND[ AT+XIIC? ] SIZE[ 9 ]
07:29:56: MON[ 1344 ] MIN[ 7 ]
07:29:58: GPRS: RESPONSE[ +XIIC: 0,0.0.0.0 ]
07:30:01: GPRS: RESPONSE NOT EXPECTED - RETRY LEFT[ 10 ]
07:30:01: GPRS: COMMAND[ AT+XIIC? ] SIZE[ 9 ]
07:30:01: GPRS: RESPONSE[ +XIIC: 1,10.33.168.167 ]
07:30:06: GPRS: RESPONSE[ OK ]
07:30:06: GPRS: COMMAND[ AT+DNS="server.boat-vitals.com" ] SIZE[ 32 ]
07:30:06: GPRS: RESPONSE[ OK ]
07:30:06: GPRS: SERVER IP[ 109.169.26.34 ]
07:30:06: GPRS: RESPONSE[ +DNS:OK ]
07:30:06: GPRS: COMMAND[ AT+TCPSETUP=1,109.169.26.34,5409 ] SIZE[ 33 ]
07:30:06: GPRS: RESPONSE[ OK ]
07:30:06: GPRS: RESPONSE[ +TCPSETUP:1,OK ]
07:30:07: GPRS: DATA PREPARED LEN[ 8 ]
07:30:07: GPRS: COMMAND[ AT+TCPSSEND=1,8 ] SIZE[ 15 ]
07:30:07: GPRS: RESPONSE[ > ]
07:30:07: GPRS: SEND DATA : SIZE[ 8 ] WAITING SYNC
07:30:07: GPRS: COMMAND[ ? ] SIZE[ 9 ]
07:30:07: GPRS: RESPONSE[ OK ]
07:30:07: GPRS: RESPONSE[ +TCPSSEND:1,8 ]
07:30:07: GPRS: DATA[ 4 120 71 214 247 ]
07:30:07: GPRS : SERVER TIME[ 4158015352 ]
07:30:07: GPRS: COMMAND[ AT+TCPCLOSE=1 ] SIZE[ 14 ]
07:30:07: GPRS: RESPONSE[ +TCPCLOSE:1,OK ]
07:30:07: GPRS: COMMAND[ AT+CGATT=0 ] SIZE[ 11 ]
07:30:07: GPRS: RESPONSE[ OK ]
07:30:08: MON[ 1344 ] MIN[ 7 ]
07:30:08: MEM: [ 34672 ]
07:30:09: MON[ 1152 ] MIN[ 6 ]
07:30:18: GPRS: TIMEOUT HIT ON LAST COMMAND - MOVING TO FIRST WITHOUT RESET
07:30:27: GPRS: COMMAND[ AT+CPIN? ] SIZE[ 9 ]
07:30:27: MON[ 1152 ] MIN[ 6 ]
07:30:28: GPRS: RESPONSE[ +CPIN: READY ]
07:30:32: GPRS: RESPONSE[ OK ]
07:30:32: GPRS: WORKER STOP - NO DATA TO BE SENT.

```

*UPPER SECTION MEANING: SENT OVER GPRS/GSMAND RESONSE RECEIVED – ALL GOOD

In case there is a issue and you cannot identify it from the log – please use the button “Copy To Clipboard”, Paste is a email and send the email to :

support@boat-vitals.com

for analysing and instruction how to fix the issue.