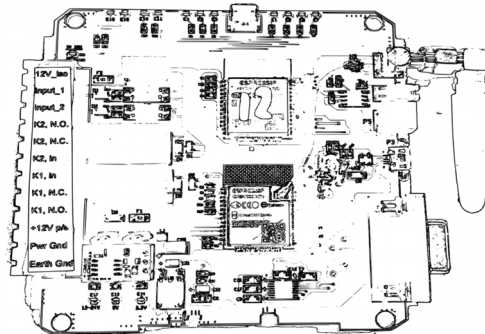


QCAN2

Activity Log

Manual



All ideas, concepts, designs, and arrangements communicated within this document are preliminary, and they are subject to change. Information contained within may be proprietary, only to be shared or used upon the approval of respective owners / holders.

Creating a QCAN2 Activity Log

In troubleshooting the QCAN2, it is useful to have a log of QCAN2 activities. The QCAN2 provides a dynamic snapshot of the RF Table when the file 'rfstat.txt' is accessed from it. Simply connect a PC to the QCAN2 WiFi Interface, and load the file into a browser or use the open source 'wget' from the command line. (<http://gnuwin32.sourceforge.net/packages/wget.htm>)

While this file can be seen from the browser, true usefulness reveals when accessed from a script. One can create a log file of all activities by continually querying the RF Table, and appending it to a file.

Below, a LibreOffice (**OpenOffice) import of the created text file. The contents of the file mirrors the RF Table at the time of capture indexed by time. The first column is QCAN2 processor time in seconds. Any event's time can be calculated from referencing the script start time from the second line, with the time of event. [**LibreOffice the import was achieved with two clicks, OpenOffice asked for several options]

	A	B	C	D	E	F	G	H	I
1	SysTime	Name	Mac	LastCom	T1	T2	T3	RFstr	
2	# Started log at: Wed 02 Oct 2019 02:59:50 PM EDT								
3	643:	'agv_chris'	'30:ae:a4:1a:aa:34'	'QCAN_STATUS_IDLE'	0	731	682	737	/30000000
4	643:	'agv_chris'	'3c:71:bf:16:d0:40'	'QCAN_STATUS_BULLY'	1	736	736	738	*34014500
5									
6	644:	'agv_chris'	'30:ae:a4:1a:aa:34'	'QCAN_STATUS_LISTEN'	1	738	682	738	/310145FF
7	644:	'agv_chris'	'3c:71:bf:16:d0:40'	'QCAN_STATUS_BULLY'	1	736	736	739	*34014500
8									
9	645:	'agv_chris'	'30:ae:a4:1a:aa:34'	'QCAN_STATUS_LISTEN'	1	738	682	738	/310145FF
10	645:	'agv_chris'	'3c:71:bf:16:d0:40'	'QCAN_STATUS_BULLY'	1	736	736	740	*34014500
11									
12	647:	'agv_chris'	'30:ae:a4:1a:aa:34'	'QCAN_STATUS_LISTEN'	1	738	682	738	/310145FF
13	647:	'agv_chris'	'3c:71:bf:16:d0:40'	'QCAN_STATUS_BULLY'	1	736	736	741	*34014500
14									
15	648:	'agv_chris'	'30:ae:a4:1a:aa:34'	'QCAN_STATUS_LISTEN'	1	738	682	742	/310145FF
16	648:	'agv_chris'	'3c:71:bf:16:d0:40'	'QCAN_STATUS_BULLY'	1	736	736	742	*34014500
17									
18	649:	'agv_chris'	'30:ae:a4:1a:aa:34'	'QCAN_STATUS_LISTEN'	1	738	682	742	/310145FF
19	649:	'agv_chris'	'3c:71:bf:16:d0:40'	'QCAN_STATUS_RELEASE'	0	743	0	743	*35000000
20									
21	650:	'agv_chris'	'30:ae:a4:1a:aa:34'	'QCAN_STATUS_LISTEN'	1	744	682	744	/31014500
22	650:	'agv_chris'	'3c:71:bf:16:d0:40'	'QCAN_STATUS_IDLE'	0	744	0	744	/30000000
23									
24	651:	'agv_chris'	'30:ae:a4:1a:aa:34'	'QCAN_STATUS_BULLY'	1	746	682	746	*34014500
25	651:	'agv_chris'	'3c:71:bf:16:d0:40'	'QCAN_STATUS_IDLE'	0	744	0	745	/30000000
26									
27	652:	'agv_chris'	'30:ae:a4:1a:aa:34'	'QCAN_STATUS_BULLY'	1	746	682	747	*34014500
28	652:	'agv_chris'	'3c:71:bf:16:d0:40'	'QCAN_STATUS_IDLE'	0	744	0	746	/30000000
29									
30	653:	'agv_chris'	'30:ae:a4:1a:aa:34'	'QCAN_STATUS_BULLY'	1	746	682	748	*34014500
31	653:	'agv_chris'	'3c:71:bf:16:d0:40'	'QCAN_STATUS_IDLE'	0	744	0	748	/30000000
32									

The script (below) is delivered with the QCAN2's evaluation package, and it is quoted below for reference. It is native to Linux, but a Windows version is provided as well. (see mon_qcan2.bat)

```
#!/bin/bash
#
# Script to monitor QCAN2 status, and create a logfile
# Written for Linux, but same programs are available for windows.
# Results are in rflog.txt
#
LOGFILE=rflog.txt
echo "SysTime, Name, Mac, LastCom, T1, T2, T3, RFstr" >> rflog.txt
echo -n "# Started log at: " >> rflog.txt
date >> rflog.txt
echo
echo "Log started, saved to $LOGFILE. Stop with Control-C"
while [ 1==1 ] ;
do
    wget -q 192.168.4.1/rfstat.txt -O - >> $LOGFILE
    # Adjust for desired sampling frequency (in seconds, floating point OK)
    sleep 1
done
# EOF
```

(Script delivered as file: 'monitor_qcan2.sh', live version is 'monitor_qcan2_stdout.sh' windows version: mon_qcan2.bat)