CANreal Monitoring Tool for CAN Diagnostics



Display and record of CAN Messages

- Highly tunable CAN monitor
- Adjustable CAN-ID filter
- CAN message logging
- DBC signal display
- High resolution time stamp
- CAN error recognition
- Various trigger functions
- Sophisticated CAN statistics with busload calculation
- Ambitious sending list of user defined CAN message

Efficient and Expandable

- Expandable by open plugin interfaceMultiple instances on same or different
- CAN networks

 Supports efficient setup, analysis and
- diagnostics of CAN applications and networks

Free of Charge

- Part of the esd software development kit (SDK)
- Operational with all esd CAN hardware interfaces

Recording and Displaying

CANreal allows to display and record CAN message frames. Messages are well arranged in an online list view which can be configured scroll down or static (object mode). Display columns are user configurable and there are ID filters for 11

and 29-bit CAN lds. The recording function allows to save CAN

messages to files. Start and end of recording can be triggered by CAN data or time conditions. Big amounts of data records can be split to multiple files with cyclic overwrite.

Files with recorded frames can be converted to cvs files or reloaded to CANreal (offline list) or esd CANtools like CANplot or CANrepro.

Timestamp

CAN messages are associated with microsecond accurate timestamps expressed in absolute time (hours, minutes..) and relative time to the previous message.

Statistic Function and Bus Load Graph The statistics function provides detailed information about the CAN Net. The amount of information reaches from the number of CAN frames up to error frames and many more. The plot graphic display offers a quick overview about the bus load and frame rates. The graph can be displayed in form of curve and bar diagrams.

Search Function

The search function allows the user to search for single CAN frames or Error frames. An advanced search can also be defined individually.

Send List

Sending of CAN frames is supported by a send list in single, cyclic or batch send modes.

Single Error Diagnostic

The single error diagnostic offers detailed information on incorrect CAN messages. Additional information can also be displayed via tooltip.

Plugins

CANreal may be extended by additional functions via plugins (i.e. J1939 for CAN systems). These inlcude further display columns and tooltip texts.

🖟 Net 3 CAN PCI200 1000 STATIC - CAN	real			
<u>File CAN S</u> end <u>V</u> iew <u>H</u> elp				
From: ID Filter 0000 - 7FF 23-Bit 00000000 - 1FFFFF 000000000 - 1FFFFF	FFF Ngt 3-CAN_PCI200 V Baut 1000 V Clear	Trigger Log Stats < Egit		
Frame-No Trg Absolute Time RelTime	e id Atr L d1 d2 d3 d4 d5	d6 d7 d8 Sender Message	Signals Signal 1 Value 1	Signal 2 Value 2 Sig
45210 2015-06-11 1 0.241		06 07 08 Sender:SenderM VW	1 AxleLocation 1	olghaite Palaote olg
+≣ 123943 2015-06-11 1 0.813 +≣ 41314 2015-06-11 1 2.977	3 🖨 18FDB8FE L 8 FF FF FF FF FF	06 07 08 Sender:Engine1 DM26 77 00 00 Mux:TireLocation TIRE	4 TimeSince 65535 sec 8 TireLocation 16	Num0fWar 255 FuelSyst TirePress_10 204 k.Pa. TireTemp
•	m			
		Value	Baw	
Description DM2 6	Signal TimeSinceEngineStart	65535 sec	[Haw [FF FF] 65535	
DM26 Id29:0x18FDB8FE (419281150)	NumOfWarmUpsSinceDTCsCleared	255	[FF 1 255	
10:39:22.843.348	FuelSystemMonitoringComplete	1	[11] 255	
FrameNo: 123518 Len:8	ACSystemRefrigerantMonEnabled	1	[01] 1	
Sender:Engine1	ResystemetrigeranenonEnabrea	-	[01] 1	
	TireLocation	16	[10] 16	1
Id29:0x18FEF4FE (419362046)	TirePress 10	204 kPa	[33] 51	
10:39:22.841.329	TireTemp 10	409.125 °C	[44 55] 21828	
FrameNo: 41172 Len:8	CTIWheelSensorStatus 10	2	[02] 2	
Mux:TireLocation	CTITireStatus 10	1		
	CTIWheelEndElectricalFault 10	2	[02] 2 VW	
	TireAirLeakageRate 10	11.900 Pa/s	[77 00]	
	T	^	AxleLoc	
Send list: Stop Up	Down Insert Dup Delete		*AxleWei	
				Veight_10 : 2568 kg
Batch Description Single Cyclic Cycle				ight_10 : 3596 kg
004: Send off	064 8 01 02 03 04		1	
005:mux16 Send off	064 8 10 02 03 04			5.000 kg TrailerWeig 2568
006: Send off 007:FL0AT: 30 Send off	065 8 01 02 03 04 066 8 00 7C 92 44		0.000 rp m IN64 23137 300000.000 rp m EngForce 8.123	50783009 M064 3.268073690
007:FLOAT: 30 Send off	066 8 00 7C 92 44			457E+008 N 0.000 N
009;FL0AT: 5 Send off	006 8 00 00 A0 40 00A 8 00 A0 00 00			0.100 N
<	0LA 8 C0 A0 00 00	o 41 20 00 00 Engine Engopeeu	IV. SOO ID M ENGRUCEMO 4	0.100 N
<u>S</u> end <a> ID: □ 29-Bit	RTR Len: Data\$:	Clear		

Technical Specifications:

Order Information:

Included in CAN SDK

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