

Cloud service can2sky.com can be used for decoding and analysis of CAN logs recorded by CAN-usb devices.

Plz note : service is still in development so you can get an error during operations sometimes, because it is modified on-the-run. Just try to make an operation later. Sorry :)

You have to register to enter service. Email requires confirmation, which will be sent by service.

CAN Decoder

DASHBOARD

CAN Decoder Login Register

Register

Name	<input type="text" value="Andrew"/>
E-Mail Address	<input type="text" value="demo@mail.com"/>
Password	<input type="password" value="....."/>
Confirm Password	<input type="password" value="....."/>
<input type="button" value="Register"/>	

After login you can load your first CAN log

Following formats are supported:

- CAN-hacker trc-file (29bit SAE J1939) - commercial vehicles, special and agriculture machinery, diesel gensets etc. This file should have an extension *.trc**

Example of this format:

Time	ID	DLC	Data	Comment
40,425	18FFB5F2	8	3A 82 FF 5C C6 80 11 05	
40,431	18F005F6	8	FF FF FF FB FF FF 20 50	

40,431 14FFB4F6 8 00 FF 16 F0 FF FF FF FF

40,433 18FFB6F2 8 00 00 00 00 F1 12 FF FF

Download example

https://drive.google.com/open?id=17j4t-xyq274q5zrWYUeQr_TNbqUhmXEw

2. Candump log-file (11-bit CAN bus from cars). This file should have an extension *.log

Example of format:

```
(1579876676.199507) slcan0 2DE#0000000000000050
(1579876676.199539) slcan0 358#000A800000000000
(1579876676.199547) slcan0 1CA#0000000005005055
(1579876676.199553) slcan0 1CB#00000000000185
(1579876676.199559) slcan0 35D#8003000000000000
(1579876676.203851) slcan0 60D#2006000000000000
(1579876676.203882) slcan0 245#7FE80218E8007FE0
(1579876676.203891) slcan0 292#7EC8008010000000
(1579876676.203898) slcan0 130#003364
(1579876676.203904) slcan0 002#DD00000752
(1579876676.203910) slcan0 174#000000AA08000000
(1579876676.203916) slcan0 176#000000000000008
(1579876676.206795) slcan0 180#0000000000002800
(1579876676.206825) slcan0 1D5#00000000D6
(1579876676.206833) slcan0 1F9#0000000000000000
(1579876676.206840) slcan0 50D#0000000000000000
```

Download example

https://drive.google.com/open?id=1rRsrHnBlxYQ_1rf2h83AosSgIVAti5uE

3. CAN-hacker trc-file (11-bit CAN from cars). This file should have an extension *.trc

Example of format

```
36,492      1 0004  40A   8      C0 00 38 8F 94 DA 07 3A 00000000
36,592      1 0004  40A   8      C0 01 00 00 9F AF 00 35 00000000
36,692      1 0004  40A   8      BF 00 3D 04 02 37 A7 00 00000000
```

36,792	1	0004	40A	8	BF 02 22 00 00 00 02 2B 00000000
36,892	1	0004	40A	8	BF 03 30 00 02 00 00 00 00000000
36,992	1	0004	40A	8	BF 04 31 80 00 24 00 06 00000000
37,092	1	0004	40A	8	BF 05 10 00 00 00 00 00 00000000
37,192	1	0004	40A	8	BF 06 10 00 00 10 00 00 00000000
37,292	1	0004	40A	8	BF 07 10 00 00 10 00 00 00000000

Download example

<https://drive.google.com/open?id=1af5rt9dg6vW5xMFiml66exj-UyZS7MID>

CAN Converter A_Petrov ▾

Upload TRC file

Mark

Model

Year

Description

Drop files here to upload

4. Import from CSV format. This file should have an extension *.csv

First string - header with names of rows. SA row is not necessary.

time;PGN;SA;b0;b1;b2;b3;b4;b5;b6;b7;;

0,01;41;1;7A;3;0;0;0;0;0;;

0,02;50;1;0;20;90;B0;FF;FF;FF;FF;;

0,03;0D0;1;B5;20;0;8;0D;90;FF;FF;;

0,04;1A0;1;0;40;0;0;FE;FE;0;0E;;

0,05;280;1;1;22;CC;0C;22;0;17;19;;

0,06;288;1;8A;7B;10;0;0;53;93;0F;;

Download example

<https://drive.google.com/open?id=1lq7u--1ntL8CxGbY5Sy4GXGEVE5qYkIs>

For 29-bit CAN bus, just use 2 bytes of PGN in PGN column (for example - FEF2, FECA, etc).

5. Don't remember which software produce this log format but it is supported too.

Time: 0.026104 ID: 0x2E5 Std Bus: 1 Len: 8

Data Bytes: 0x00 0x00 0x01 0x0B 0x00 0x00 0xDD 0x00

Time: 0.032764 ID: 0x266 Std Bus: 1 Len: 8

Data Bytes: 0x00 0x00 0x01 0x2F 0x00 0x00 0x94 0x01

Time: 0.036190 ID: 0x2E5 Std Bus: 1 Len: 8

Data Bytes: 0x00 0x00 0x01 0x0B 0x00 0x00 0xDD 0x00

Time: 0.042627 ID: 0x266 Std Bus: 1 Len: 8

Data Bytes: 0x00 0x00 0x01 0x2F 0x00 0x00 0x94 0x01

Drag your CAN-log file (one of supported formats listed above) and fill information about vehicle (all fields are required)

Upload TRC file

NEW CAR ▼

Mark Subaru

Model Forester

Year 2013

Description lock, unlock

0.2 MB

Subaru Fores...

[Remove file](#)

Then we can choose a parser to decode the data. Service check all possible parsers and show a number of known parameters. Choose most suitable parser to decode your log. Take into account that same manufacturer parser most likely will provide you better results. Click Send.

NEW CAR

Mark: Ford

Model: Escort

Year:

Description:

0.5 MB
обороты.trc
Remove file

DBC File: CAR-can_AZE0(3)

- acura_ilx_2016_1(3)
- acura_ilx_2016_2(7)
- acura_rdx_2018(3)
- cadillac_ct6_object(8)
- cadillac_ct6_powertrain(1)
- chrysler_pacifica_2017_hybrid(3)
- ESR(2)
- ford(1)
- ford 2(13)**
- gm_high_voltage_management(2)
- honda_accord_touring_2016(3)
- honda_civic_hatchback_2017(2)
- honda_civic_touring_2016(3)
- honda_crv_ex_2017(2)
- honda_crv_hybrid_2019(1)
- honda_fit_ex_2018(3)
- honda_fit_hybrid_2018(3)
- honda_odyssey_2018(3)
- honda_ridgeline_2017(3)
- hyundai_2015_mcan(3)

Send

Then main dashboard window appears where you can see all your logs and parsers (both default and your private parsers).

My logs

Date	File name	Status
2020-02-28 13:23:01	TRACE Заведенный.trc (John Deere,неизвестно,2005)	completed view

My DBC list




























Name
j1939_orig(default)
chrysler_pacifica_2017_hybrid(default)
cadillac_ct6_powertrain(default)
cadillac_ct6_object(default)
cadillac_ct6_chassis(default)
acura_rdx_2018_can_generated(default)
acura_ilx_2016_nidec(default)
acura_ilx_2016_can_generated(default)

After some time you will see VIEW status nearby your log. That means parsing is finished and we can analyze data now. Click View. **Analysis link will appear after some time, please, wait for it.**










1582354437_TRACE Заведенный.trc

j1939_orig Parsing using another DBC file Clone DBC file

TRACE Заведенный.trc (John Deere, unknown, 2005) Filter

PGN	SA	SPN		SPN Name	VALUE
0000	06	1	  	TrailerWeight	
0000	06	2	  	ReferenceTirePressSetting	
0000	06	3	  	ReferenceTirePress	
0000	06	4	  	TirePressThresholdDetection	
0000	06	5	  	TireAirLeakageRate	
0000	06	6	  	CTIWheelEndElectricalFault	
0000	06	7	  	CTITireStatus	
0000	06	8	  	CTIWheelSensorStatus	
0000	06	9	  	TireTemp	

Left part of screen – a list of CAN identifiers which are active in this log. Some of them are recognized by DBC-parser, some – not (marked with red background).

FEFC	47	2056	  	EngOilFilterDiffPress	127.500
FEFC	47	2057	  	EngFuelFilterDiffPress	510.000
FEFC	47	2058	  	WasherFluidLevel	102.000
ACFF	13		+ SPN		
D0FF	37		+ SPN		
E000	19		+ SPN		
E605	26		+ SPN		
E6FF	26		+ SPN		
E726	06		+ SPN		
EA00	FB		+ SPN		

Value column shows minimum and maximum parameter value during log.

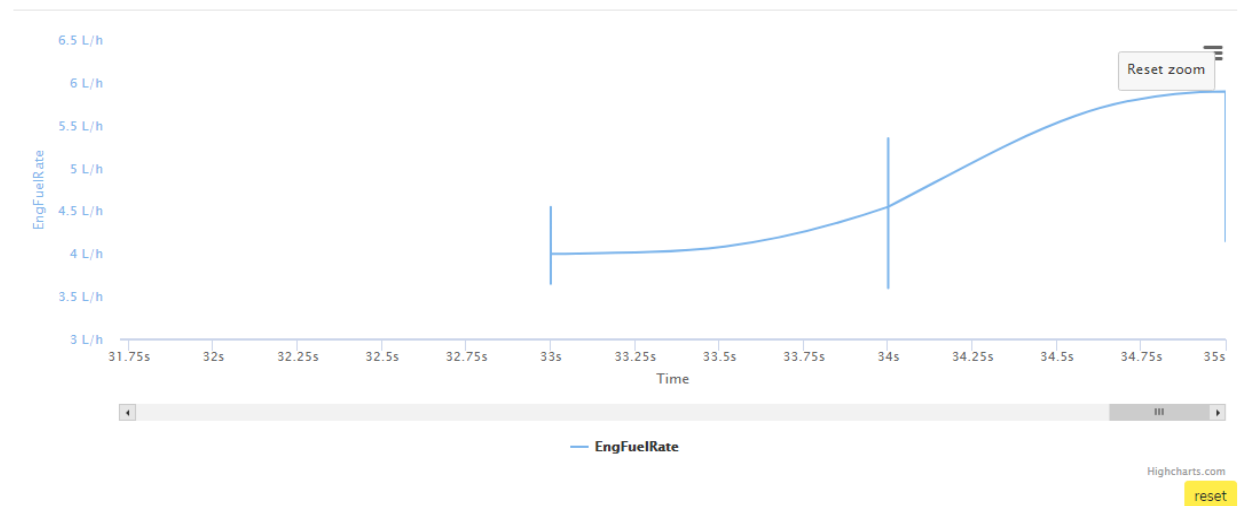
You can change a period for analysis using Time Filter range settings.

If you click on parameter in the parameter's list – it becomes green. Table of values will appear and parameter plot.

TRACE Заведенный.trc (John Deere, unknown, 2005) Filter

TIME	VALUE	RAW DATA
33,042	4.1000000000	5200FFFFFFFFFFFF
33,142	3.6500000000	4900FFFFFFFFFFFF
33,242	4.1000000000	5200FFFFFFFFFFFF
33,342	4.3000000000	5600FFFFFFFFFFFF
33,442	4.3000000000	5600FFFFFFFFFFFF
33,542	3.9000000000	4E00FFFFFFFFFFFF
33,642	4.5500000000	5B00FFFFFFFFFFFF
33,742	4.5500000000	5B00FFFFFFFFFFFF
33,842	4.5000000000	5A00FFFFFFFFFFFF

38		WheelBasedVehicleSpeed	0.0000000000
39		CruiseCtrlPauseSwitch	3.0000000000
40		ParkingBrakeSwitch	3.0000000000
41		TwoSpeedAxleSwitch	3.0000000000
45		EngAverageFuelEconomy	127.9980468750
46		EngInstantaneousFuelEconomy	127.9980468750
47		EngFuelRate	0.0000000000 - 25.1500000000
48		EngThrottleValve2Pos	102.0000000000
49		EngThrottleValve1Pos	102.0000000000
7		EngCoolantFilterDiffPress	127.5000000000



You may zoom plot with left mouse button and selecting a part of plot.

You can built several plots at once, also you can combine plots from different log-files. To choose another source of parameters you can click on listbox of loaded logs.

TRACE Заведенный.trc (John Deere, unknown, 2005) Filter

- Stream_can_OBD_6_14.trc (test, test2, 2002)
- Stream_can_OBD_6_14.trc (test, test2, 2002)
- трассировка с вкл подмоткой и запущенным двигателем.trc (Камаз, 65116 евро3, 2012)
- ON-OFF1.trc (test, test2, 2015)
- TRACE Заведенный.trc (John Deere, unknown, 2005)**
- rostselmash.trc (Rostselmash, unknown, 2015)
- бункер закрыт.trc (Rostselmash, unknown, 2015)

Filter section allows to filter out not using PGN from list. Parameters marked green will appears in the list. Inversion will reverse selection.

Filter SPN ×

inversion reset

PGN	SPN	SPN Name
0000 - VECTOR__INDEPENDENT_SIG_MSG	1	TrailerWeight
0000 - VECTOR__INDEPENDENT_SIG_MSG	2	ReferenceTirePress
0000 - VECTOR__INDEPENDENT_SIG_MSG	3	ReferenceTirePress
0000 - VECTOR__INDEPENDENT_SIG_MSG	4	TirePressThreshold
0000 - VECTOR__INDEPENDENT_SIG_MSG	5	TireAirLeakageRate

Close Save changes

The rules of CAN-bus messages decoding are described by DBC-files. Each parameter (SPN) has its own decoding rule which you can edit, clone or delete in SPN editor

FE41	37	589	✎ 📄 🗑️	BackUpLightAndAlarmHornCmd	0.0000
------	----	-----	--------	----------------------------	--------

SPN editor window:

Edit Spn RightStopLightCmd ✕

PGN FE41

Bit start	Bit length	Scale	Offset	Min	Max
20	2	1	0	0	3

Unit

HEX:03030C3300030C33

data	03	03	0C	33	00	03	0C	33
number	0	8	16	24	32	40	48	56

BIN:00000011000000110000110001100110000000000000110000110000110011

data	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0
number	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

Result = bin: 11 | hex: 3 | dec: 3
 $3 * 1 = 3.00000 + 0 = 3$

Close
Next

Bit start – start position of parameter in CAN bus message (in bits, because there are a lot of bit-coded parameters). Each byte=8 bits (fyi).

Bit length – length of CAN parameter in bits

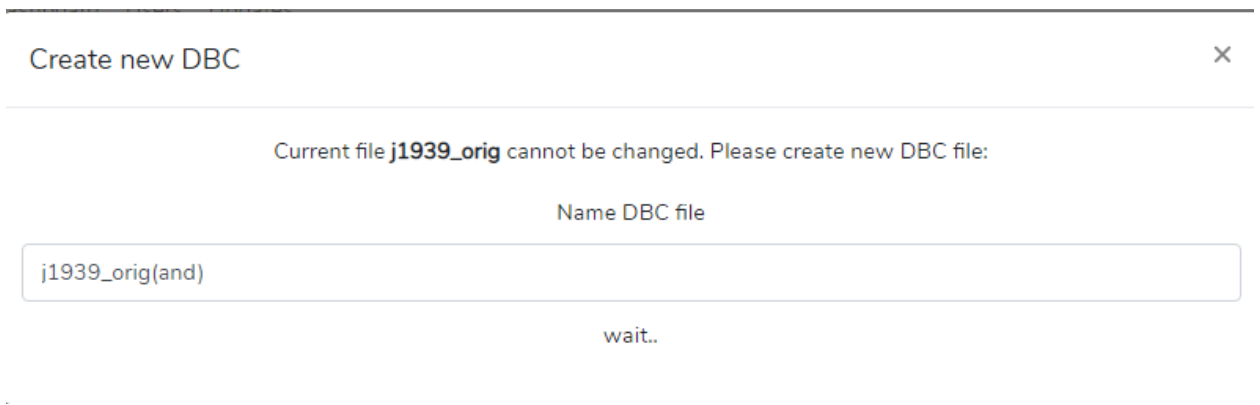
Scale – scale how to convert can value to real parameter

Offset – offset of real value, so real data calculated as CAN parameter * scale + offset










Min and Max – minimum and maximum value (optional)

You can see also result of your decoding operation in DEC, HEX and binary format.

After SPN edition you will be prompted to save a DBC-parser under new name (you can't modify default DBC-file), you can only create new version of it. Creation of new DBC-parser can take a lot of time (several minutes, please, be patient).



In SPN-editor you can add decoding rules for unrecognized messages.

FEFC	47	2056	  	EngOilFilterDiffPress	127.500
FEFC	47	2057	  	EngFuelFilterDiffPress	510.000
FEFC	47	2058	  	WasherFluidLevel	102.000
ACFF	13		+ SPN		
D0FF	37		+ SPN		
E000	19		+ SPN		
E605	26		+ SPN		
E6FF	26		+ SPN		
E726	06		+ SPN		

Click +SPN for to make it.

Again, you cannot create new SPN rule in default DBC, so you will be prompted to make a new one

Create new DBC



Current file **j1939_orig** cannot be changed. Please create new DBC file:

Name DBC file

j1939_orig(and)

wait..

Then click +SPN

1582354437_TRACE Заведенный.trc

j1939_orig j1939_orig(and2) Parsing using another DBC file Clone DBC file

TRACE Заведенный.trc (John Deere, unknown, 2005) Filter

FE14	22		+ SPN	
FE15	22		+ SPN	
FE16	22		+ SPN	
FE17	22		+ SPN	
FE48	31		+ SPN	

SPN-editor will appear where you can put a name of SPN and set meaningful bits and scale.

1585502601_3_125_lock_unlock.trc Private Yes

mazda_cx5_gt_2017 [Parsing using another DBC file](#) [Clone DBC file](#)

125_lock_unlock.trc (Mazda, CX-5, 2015) Filter

TIME	VALUE	RAW DATA
24,751		C000000400000000
24,851		C000000500000000
24,950		C000000600000000
25,050		C000000700000000
25,150		C000000800000000
25,250		C000000900000000
25,350		C000000A00000000
25,450		C000000B00000000
25,550		C000000C00000000

Address	Size	Value	Signal	Range
43F	0	64187	NEW_SIGNAL_1	24 - 249
488	0	63827	NEW_SIGNAL_1	0
4F5	0	64138	NEW_SIGNAL_1	0
050	0	+ SPN		
078	0	+ SPN		
086	0	+ SPN		
091	0	+ SPN		
09A	0	+ SPN		
09B	0	+ SPN		
09E	0	+ SPN		

Part 2. Public logs.

By default, every log is private and can be reviewed only by its owner.

1586328019_3_BMW X6 2008 Comfort CAN Lock unlock.trc Private Yes

But you can turn off this switch and make log "Public".

Private No

After login under new username we will see this log in public section, accessible for any user of platform.

Public logs		
Car	User	
BMW,X6,2008	and	view
Tesla,XXX,2016	and	view

Everybody can review it and built plots.

1586328019_3_BMW X6 2008 Comfort CAN Lock unlock.trc					
BMW X1_from_loopybunny					
349	0	87741		FuelsensorRight	27.73125 - 27.75
349	0	87742		FuelsensorLeft	61.81875 - 61.86875
PGN - 362 - AverageMPH_MPG					
362	0	87739		AverageMPG	409.5
362	0	87740		AverageMPH	406.1
PGN - 366 - ExtTempRange					
366	0	87737		ExternalRange	0.625
366	0	87738		ExternalTemperature	22
PGN - 381 - EngineOilLevelStatus					

TIME	VALUE	RAW DATA
33,779	27.7375	A526561100
33,980	27.73125	A326551100
34,179	27.73125	A326551100
34,380	27.7375	A726561100
34,579	27.7375	A726561100
34,780	27.7375	A626561100
34,980	27.7375	A626561100
35,180	27.7375	A626561100
35,379	27.74375	A726571100

And post comments under log.



A_Petrov - 7 minutes ago

Первый комментарий!

[EDIT](#) [DELETE](#)



A_Petrov - 1 second ago

Second comment. I think something is wrong with vehicle speed cluster (1B4)

[EDIT](#) [DELETE](#)

Enter your message here:

[Markdown cheatsheet.](#)

Collaboration features of DBC-edition will be added later