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	ISSUE	Level	A00	
		Date	xx/xx/15	
Title:	CANape Using Introduction		Page 1 of 59	

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TRW EPS Engineering, Shanghai Engineering Document	Document No.	8078xxxx		
	ISSUE	Level	A00	
		Date	xx/xx/15	
Title:	CANape Using Introduction		Page 2 of 59	

Table of Contents

1 INTRODUCTION.....	5
2 Prepare before EPS reflash and calibration	5
3 Physical Connection.....	5
4 How to check hardware	6
4.1 How to check CAN channel	6
4.2 How to check license	7
4.3 How to set can channel.....	8
4.4 How to add application.....	9
5 CANape project and configuration.....	10
5.1 How to create a new project	10
5.2 How to load exist project.....	15
5.3 How to create a new configuration	16
5.4 How to change a2l file.....	18
5.5 How to change eif file.....	19
5.6 How to load configuration	20
5.7 How to connect	21
5.8 How to use high version CANape to open low version CANape configuration or use low version CANape to open high version CANape configuration.....	21
6 CANape Calibration function	22
6.1 How to load calibration parameters	22
6.2 How to save parameters	23
6.3 How to compare calibration parameters	24
7 CANape measure function	27
7.1 How to measure signal	27
7.2 How to set sample frequency	27
7.3 How to save measurement	28
7.4 How to save measurement signals automatically.....	29
7.5 How to measure signal not interrupt when CANape ignition on /off	32
7.6 How to save measurement data as file size or time	33
8 CANape script function	34
8.1 How to execute script.....	34
9 CANape function performance(fx)	35
9.1 How to set (fx) virtual channel	35
10 Pannel design	37
11 CANape Data process function	38
11.1 Data analysis.....	38
11.1.1 Open MDF file by normal using CANape configuration	38

Printed copies are uncontrolled unless stamped in red "Controlled Copy"

TRW EPS Engineering, Shanghai Engineering Document	Document No.	8078xxxx		
	ISSUE	Level	A00	
		Date	xx/xx/15	
Title:	CANape Using Introduction		Page 3 of 59	

11.1.2	Directly open MDF file.....	39
11.2	Data export	39
11.2.1	Normally export other format data (will export all measurement signals)	39
11.2.2	Data filter	41
12	How to export Faultlist by A2l config	41
13	CANape how to set window background color, font size	44
14	How to create a diagnostic window in CANape	46
15	How to add a new parameter into a2l with MAP file	49
16	How to edit a parameter in a2l file	50
17	How to encrypt an a2l file	54
18	How to encrypt a configuration	56
19	How to get support for difficult problem.....	58

Printed copies are uncontrolled unless stamped in red “Controlled Copy”

TRW EPS Engineering, Shanghai Engineering Document	Document No.	8078xxxx		
	ISSUE	Level	A00	
		Date	xx/xx/15	
Title:	CANape Using Introduction		Page 4 of 59	

SCOPE

This document describes some introductions of CANape using.

DOCUMENT REFERENCE LIST

SI.NO	Document Title	Drawing number
1		
2		
3		

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TRW EPS Engineering, Shanghai Engineering Document	Document No.	8078xxxx		
	ISSUE	Level	A00	
		Date	xx/xx/15	
Title:	CANape Using Introduction		Page 5 of 59	

1 INTRODUCTION

This specification is to introduce some CANape functions. Note: all operation use **CANape12.0** as a sample.

2 Prepare before EPS reflash and calibration

Please prepare following items:

- Laptop:Win10,>8G RAM,with CANape,CANalyzer,VFlash software.
- Vector hardware box with CANape license, CANalyzer license,Vflash license.
- 12V Power supply
- Cables
- EPS sample
- RCR
- Software package

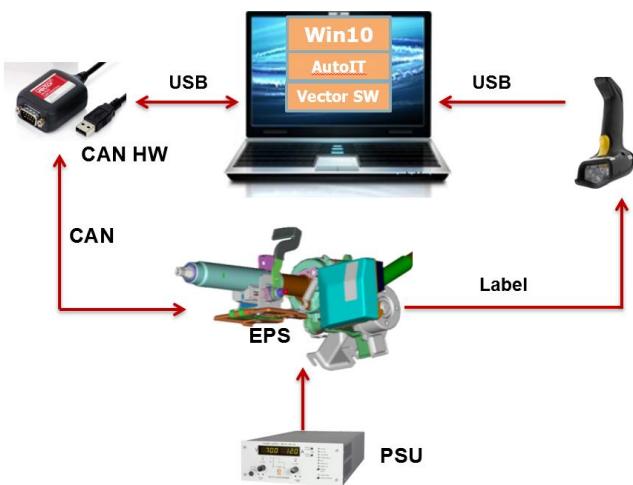
Please refer to following information for S0 to S9 meaning.



- Checklist
- CANape configuration
- CANalyzer configuration
- WI
- Address and contact if business trip

3 Physical Connection

Please check physical connection before reflash and calibration by manual. Scanner is optional.



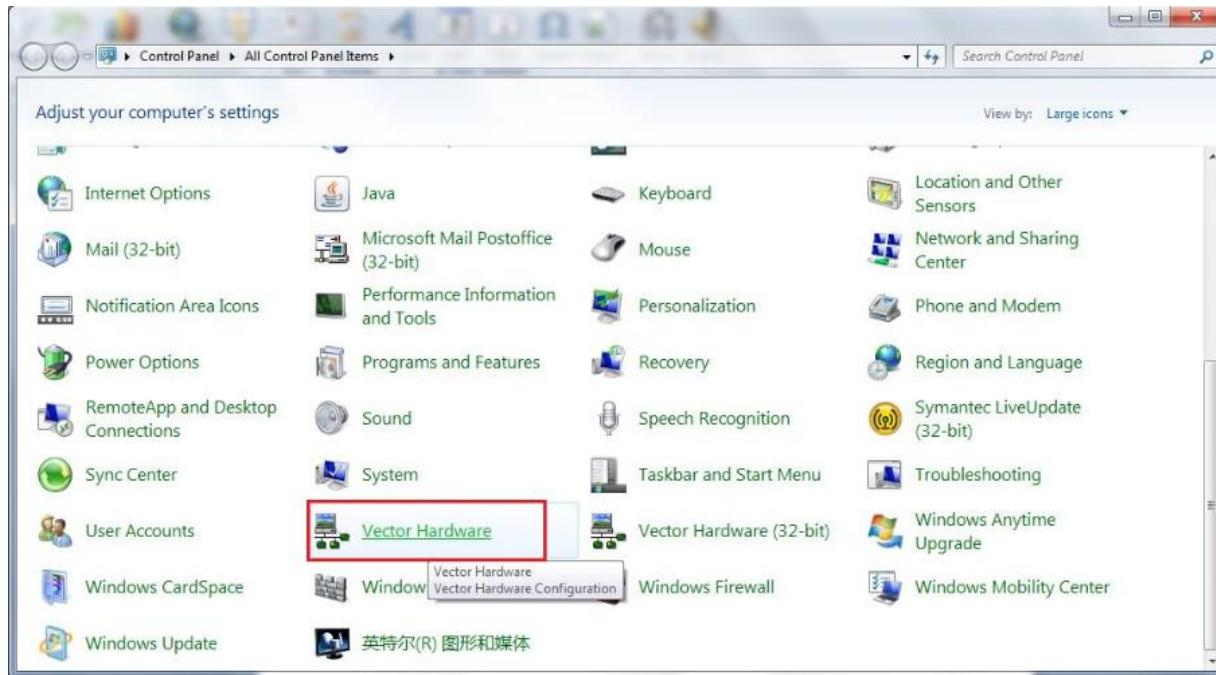
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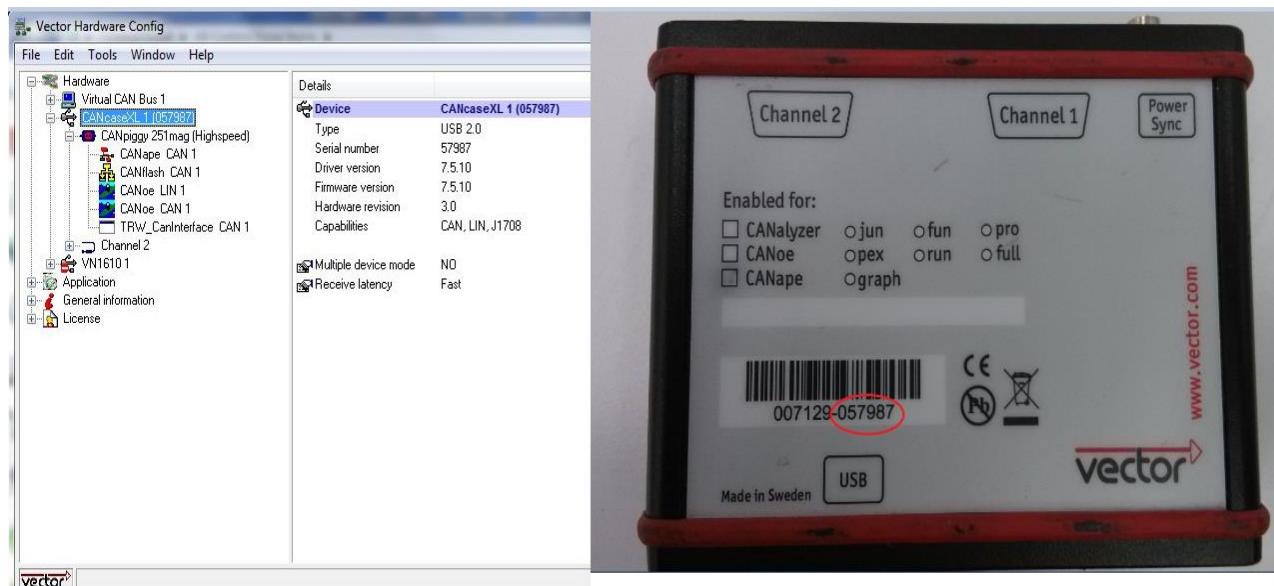
4 How to check hardware

4.1 How to check CAN channel

- 1) Open control panel → Vector Hardware



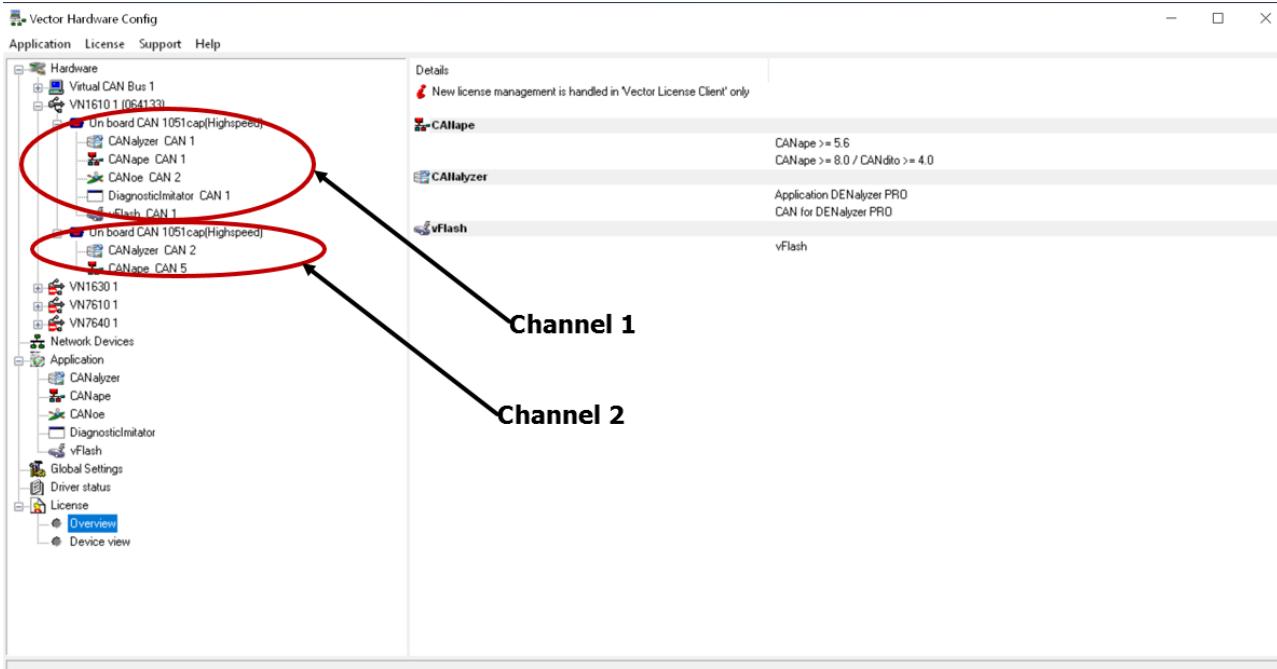
- 2) Make sure serial number is same as the number on the background of vector box.



If you install driver successfully, but can't find the serial number, please restart your computer and try again.

- 3) Please check how many channels. VN1610 has two channels. See below.

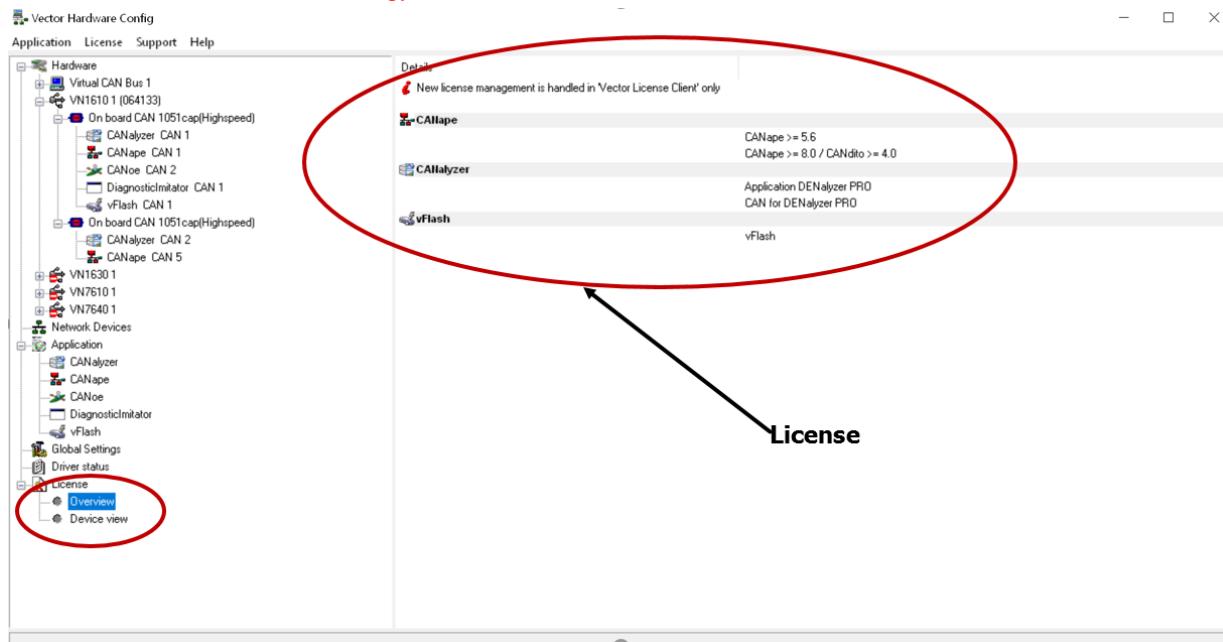
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4.2 How to check license

Please check Vector box license status.

1. For **old license strategy**, Vector Hardware → License → Overview



2. For **new license strategy**, Start → Vector License Client

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TRW EPS Engineering, Shanghai
Engineering Document

Document No.

8078xxxx

ISSUE

Level A00

Date xx/xx/15



Title:

CANape Using Introduction

Page 8 of 59

Vector License Client																
Licensing		Offline Processes			Miscellaneous			Settings								
Product	Loca...	Reac...	Expi...	Maxi...	Licens...	Lice...	Ve...	Assig...	Is ...	Is Perp...	Is ...	Reactiv...	Produc...	Minimum ...		
CANalyzer PRO	VNI...	-	-	11.0	Device	Perpetual	55...	0071...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	55100	0.0		
CANape	VNI...	-	-	16.0	Device	Perpetual	55...	0071...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	55300	0.0		
vFlash	VNI...	-	-	4.0	Device	Perpetual	55...	0071...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	55400	0.0		

Timestamp Source Message

2020/8/7 15:56:17 Vector Network Interface 'VN1610' was connected.

Ready [Supported Hardware](#) [Supported Software](#) [Update Available](#)

4.3 How to set can channel

Select CANape → CAN 1

Connector	CH1/2
PIN 1	.
PIN 2	CAN Low
PIN 3	GND
PIN 4	.
PIN 5	Shield
PIN 6	.
PIN 7	CAN High
PIN 8	.
PIN 9	.

You also should make sure CAN_Network to CAN1 in CANape setting, see below.

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Device Configuration

Device Network Calibration Flash Database ?

CAN Transport Layer

- > SignalDatabase_CAN_V1 [CAN]
 - > Database
- > Diagnostics_Renault_AD1 [Diagnos
- > Signaldatabase_RPC [CAN]
- > SignalDatabase_CAN_IC [CAN]
 - > Database

< Networks

- > CAN_Network [CAN]
 - > EcuC [CCP]
 - > EpsC [CCP]
 - > SignalDatabase_CAN_V1 [CAN]
 - > Database
 - > Diagnostics_Renault_AD1 [Diagn
 - > Signaldatabase_RPC [CAN]
- > CAN_Network_2 [CAN]
 - > SignalDatabase_CAN_IC [CAN]

< Channels

- > Vector
- > Vector VX

CAN_Network

Network

Name: CAN_Network

Channel: CAN 1 - VN1610 (064133) - Ch 1 - On board CAN 1051cap(Highspeed)

CAN Bus-Parameter

Baudrate: 500000

CAN

Change ...

You also could set CANalyzer to CAN1 on channel 1.

4.4 How to add application

Right click “Application”

Vector Hardware Config

Application License Support Help

Hardware

- > Virtual Bus 1
 - > VN1610 1 (062807)
 - > On board CAN 1051cap(Highspeed)
 - > On board CAN 1051cap(Highspeed)
- > VN1630 1
- > VN7610 1
- > VN7640 1

Network Devices

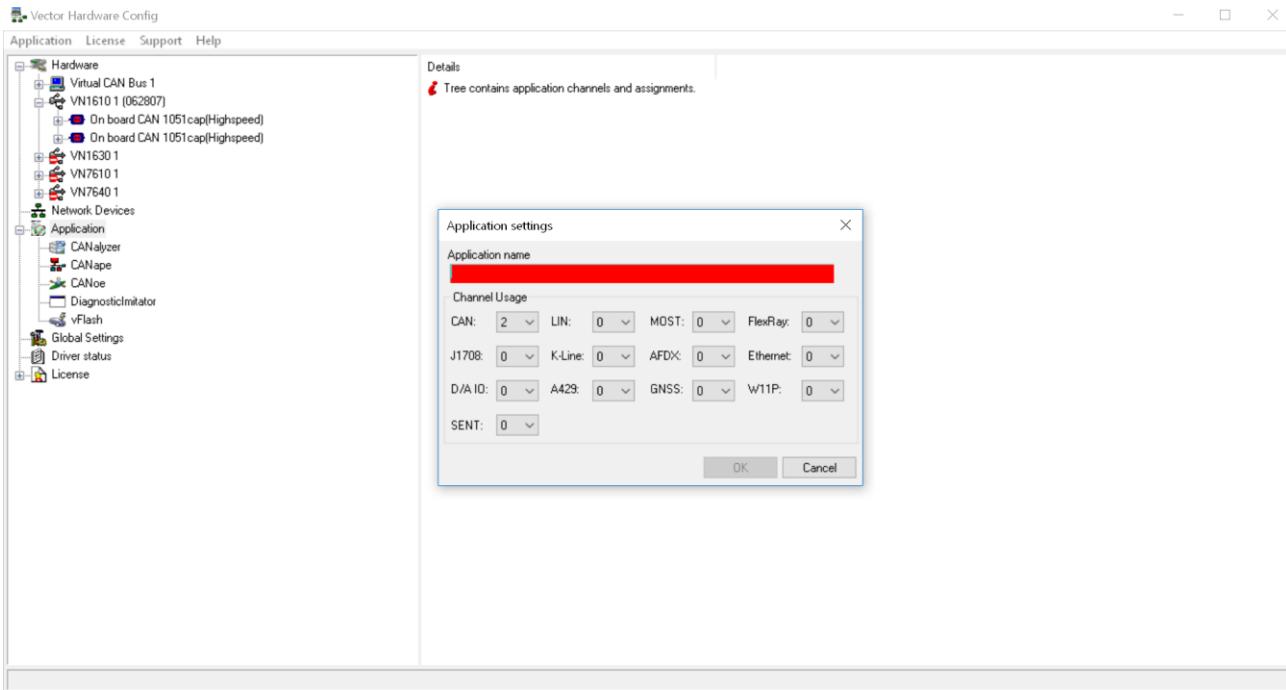
- > Application
 - > CANalyzer
 - > CANape
 - > CANoe
 - > DiagnosticImitator
 - > vflash
- > Global Settings
- > Driver status
- > License

Details

Tree contains application channels and assignments.

Input application name you want to add.

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5 CANape project and configuration

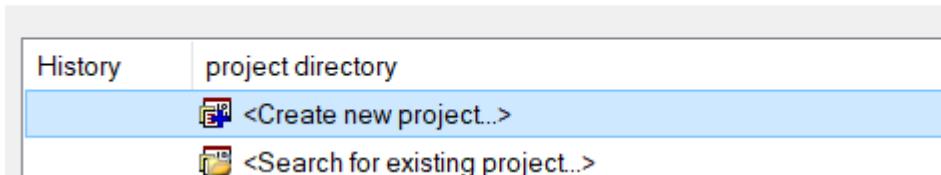
5.1 How to create a new project

- New project, we need a a2l file, (it's ok with or without eif file)
- Open Canape 12.0 .exe file.



- Select 'create new project'

Select project



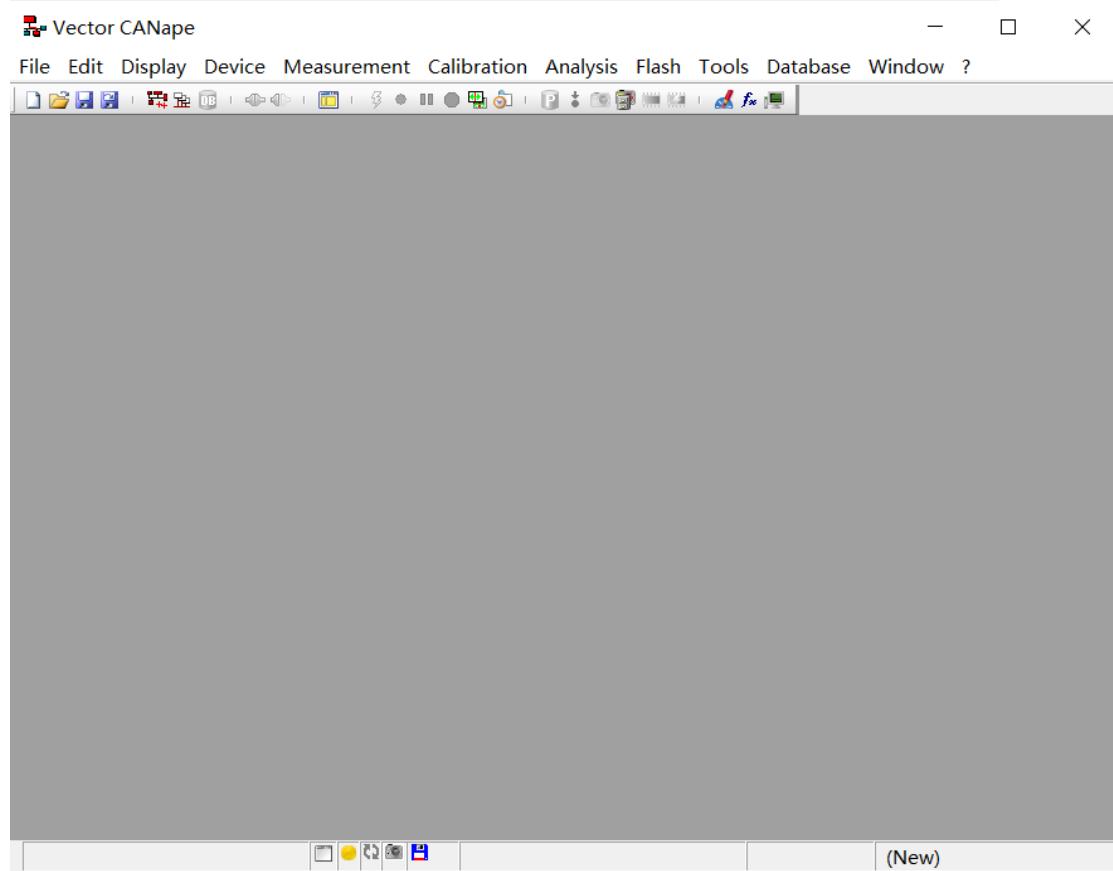
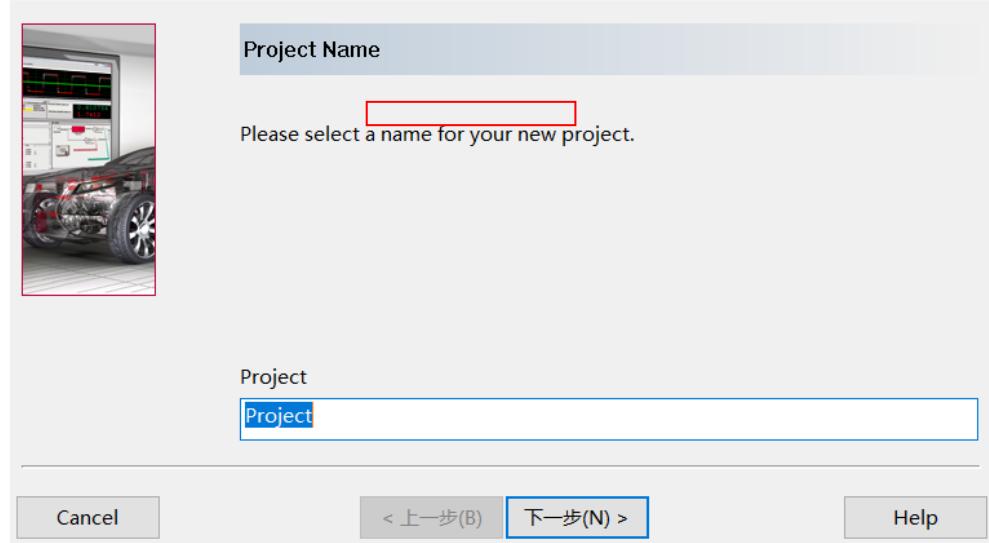
- Rename your project name then click next step and finished.

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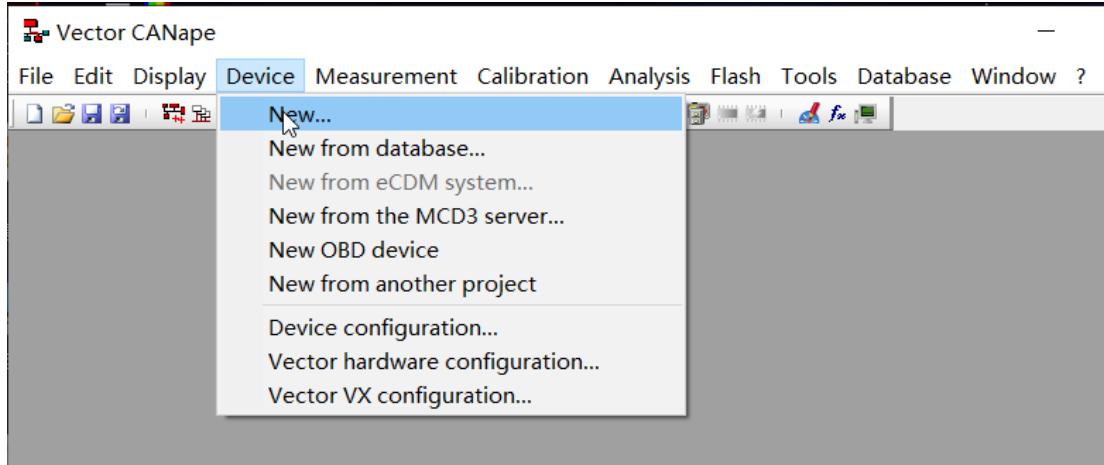
Project Name

X

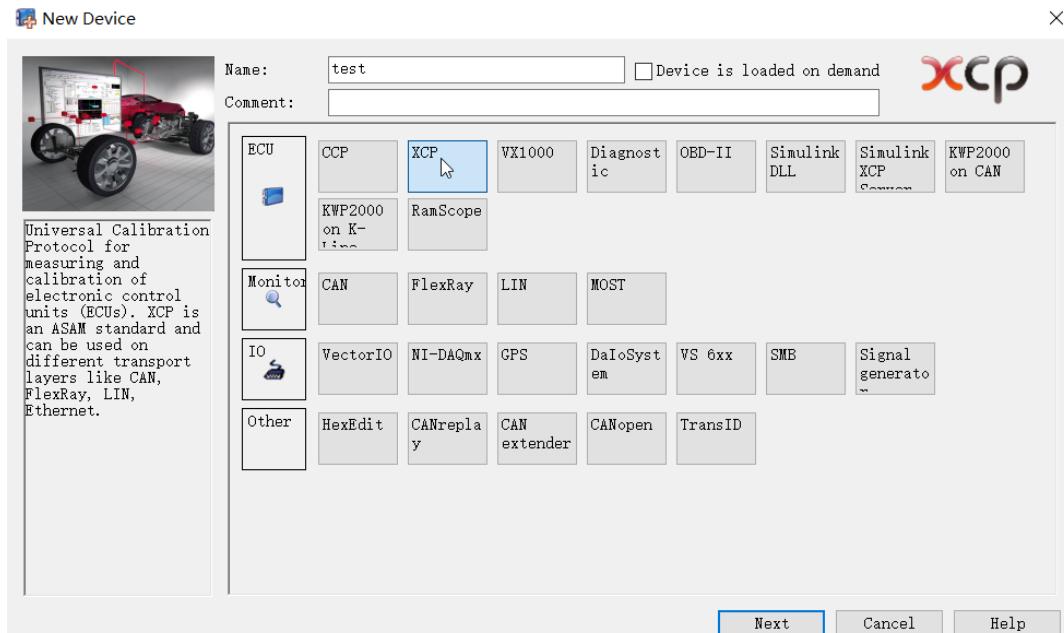


- Click Device and click New...

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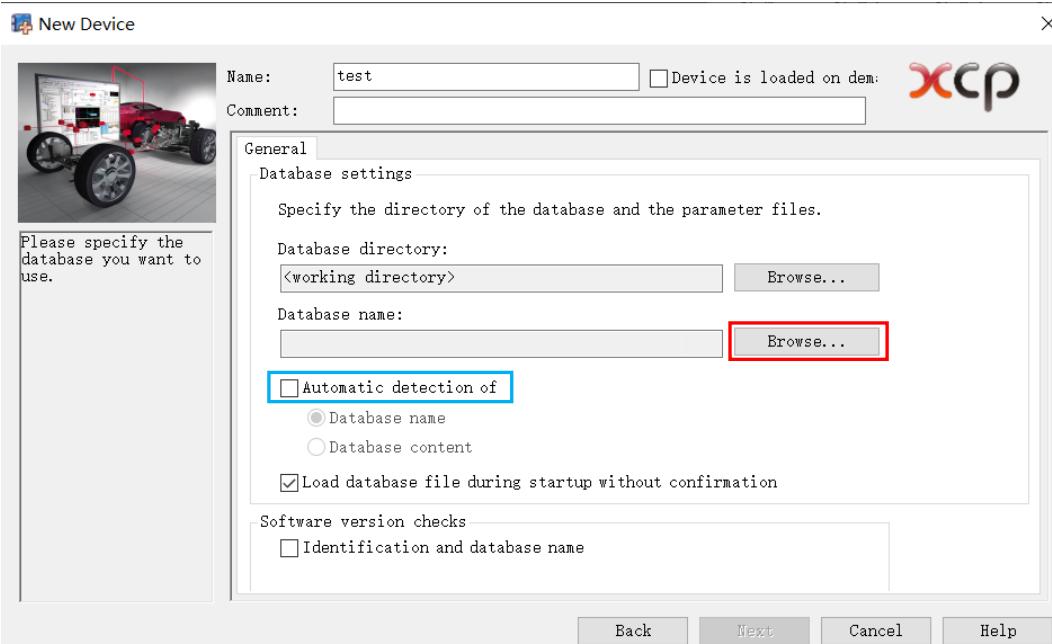


- Select XCP and write a device name as below:

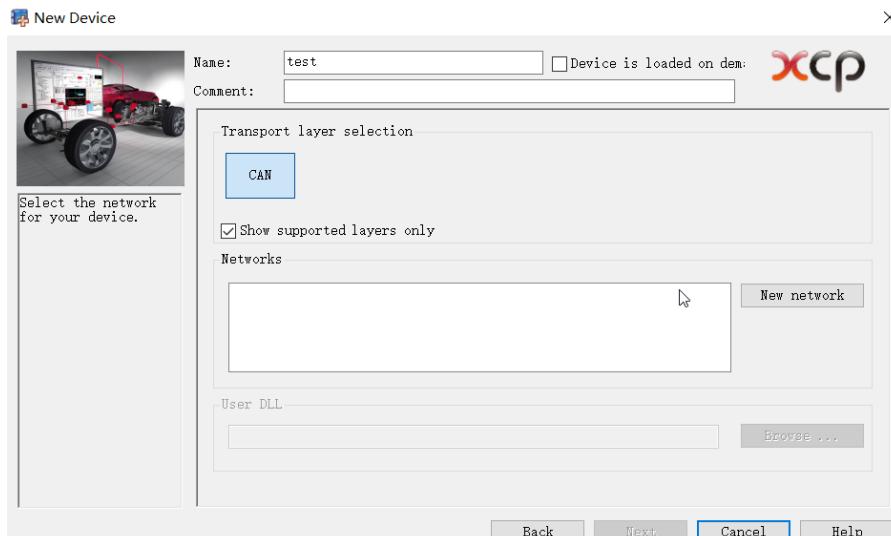


- Click next ,next , then cancel check mark in blue area, click Browse in red area.

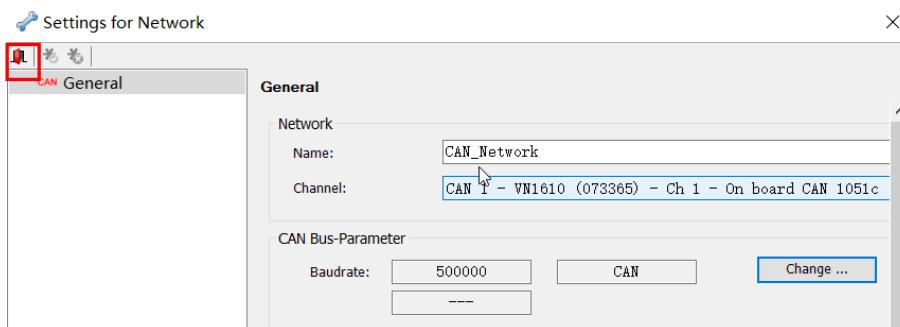
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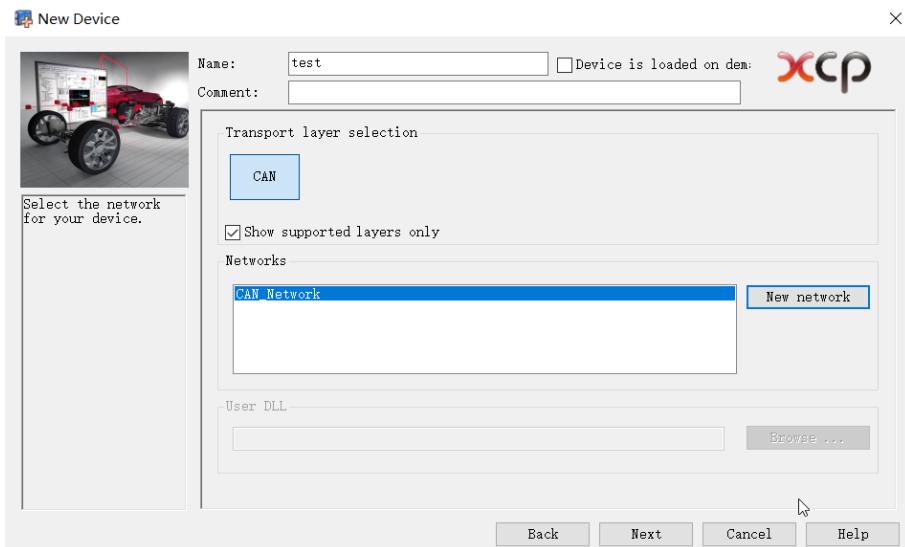
- Select our a2l file and click next.



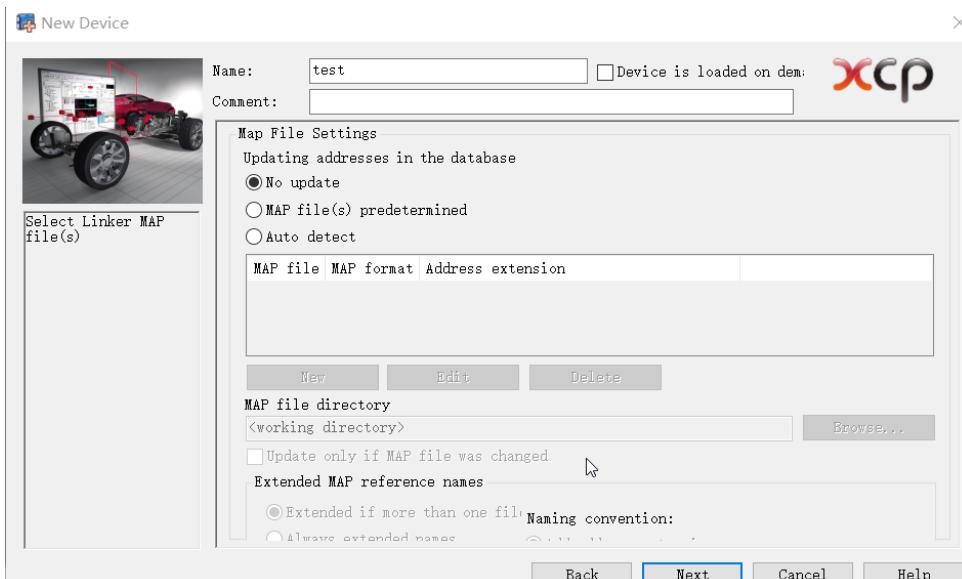
- Click New network then click red button in left up.



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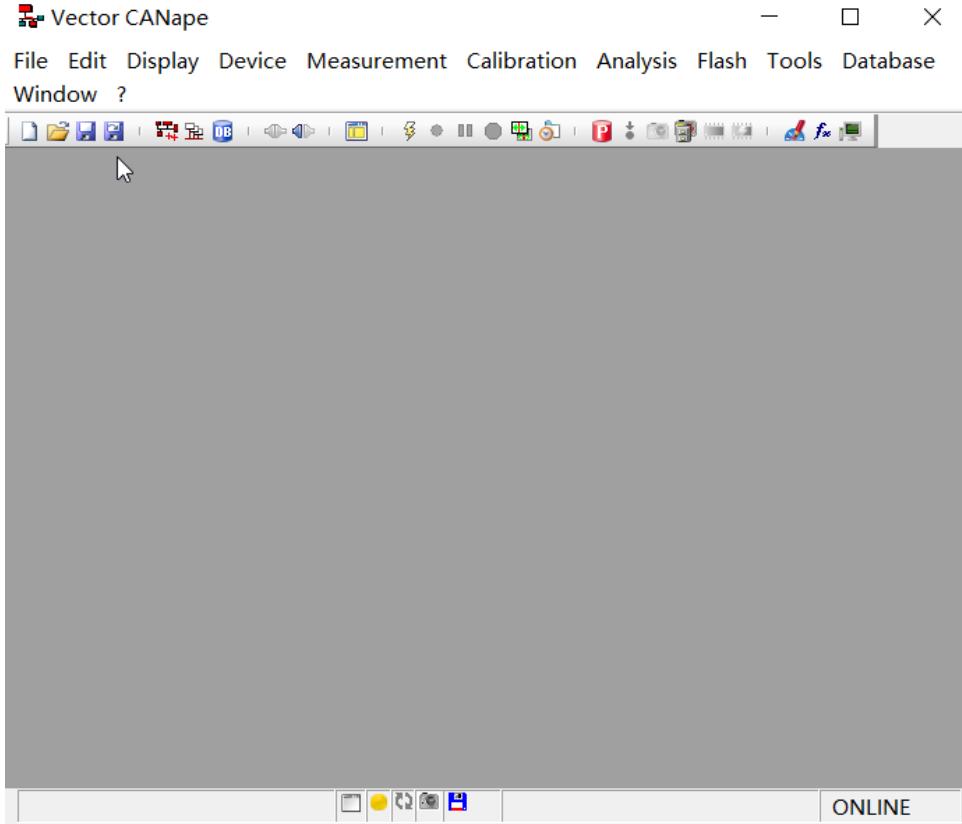
- Select eif file if have this file; select No update without eif file.



- Click next and ok.

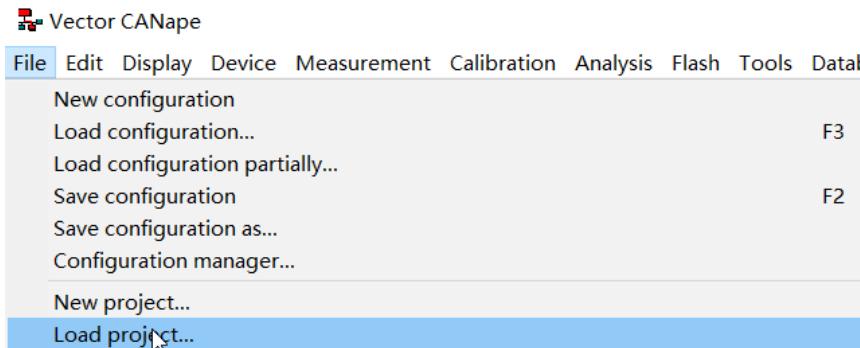
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TRW EPS Engineering, Shanghai Engineering Document	Document No.	8078xxxx	
	ISSUE	Level A00	
		Date xx/xx/15	
Title:	CANape Using Introduction		Page 15 of 59

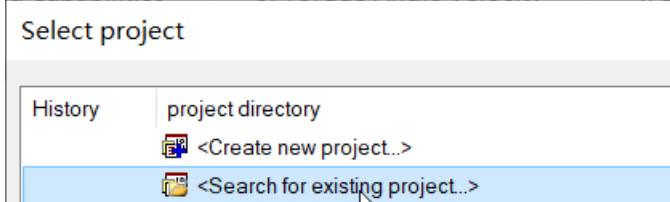


5.2 How to load exist project

- Click file , load project.



- Choose search for existing project

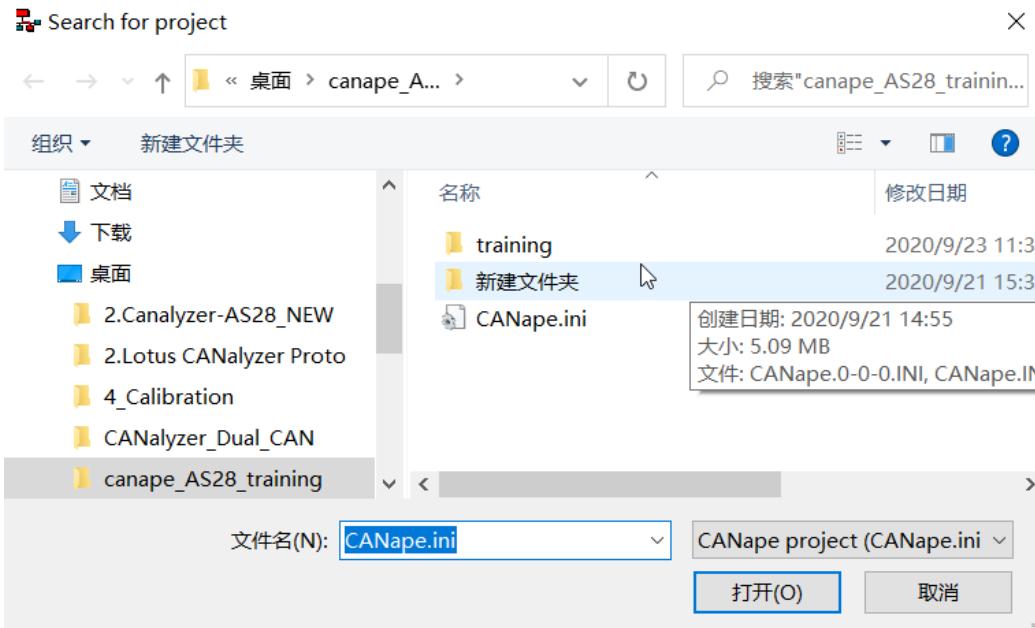


- Select suitable project and click ok.

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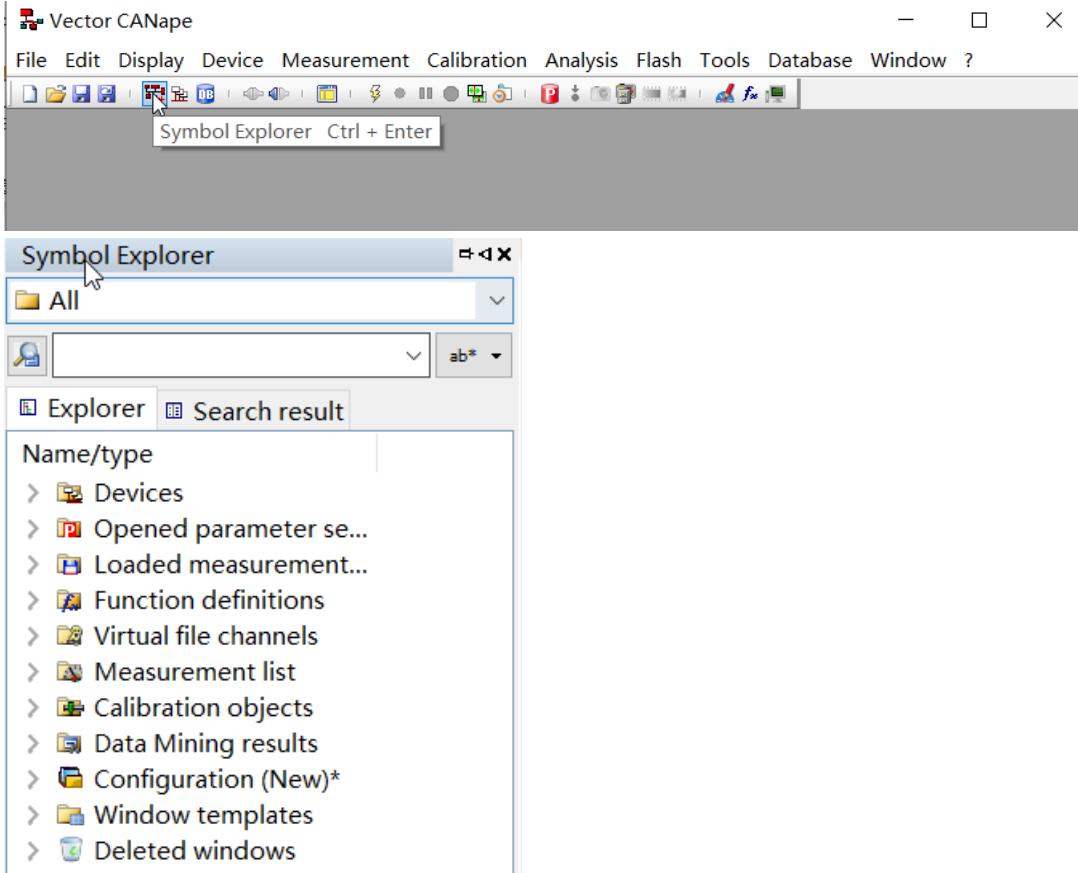


Title:

CANape Using Introduction

5.3 How to create a new configuration

- Open signal explorer as below.



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TRW EPS Engineering, Shanghai
Engineering Document

Document No.

8078xxxx

ISSUE

Level A00

Date xx/xx/15

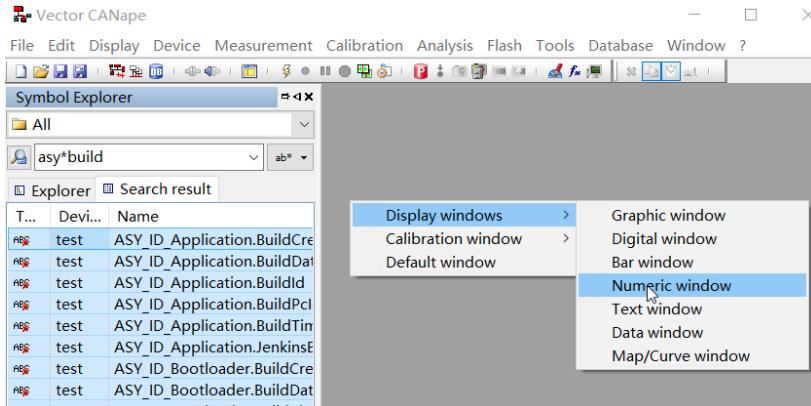
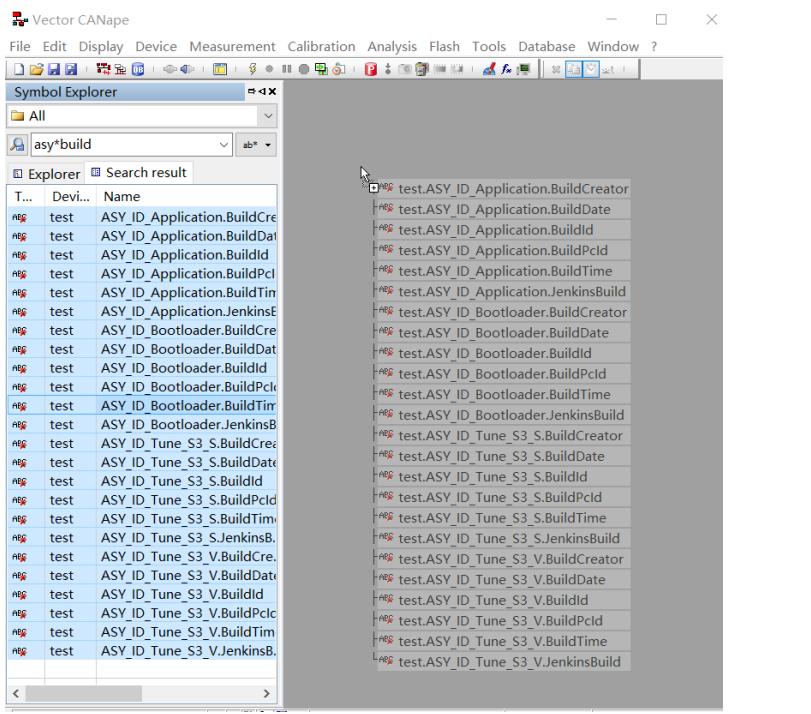


Title:

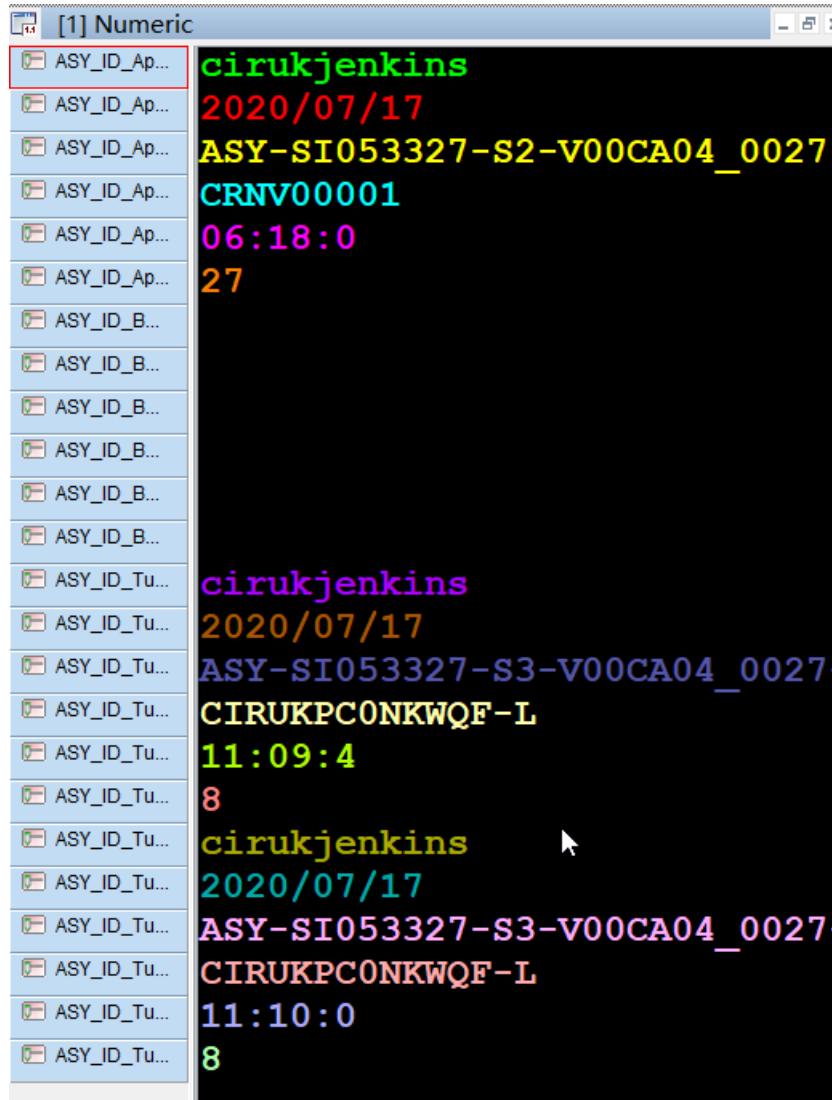
CANape Using Introduction

Page 17 of 59

- search some signal we need in blank area, then pull them in canape and select suitable show format.



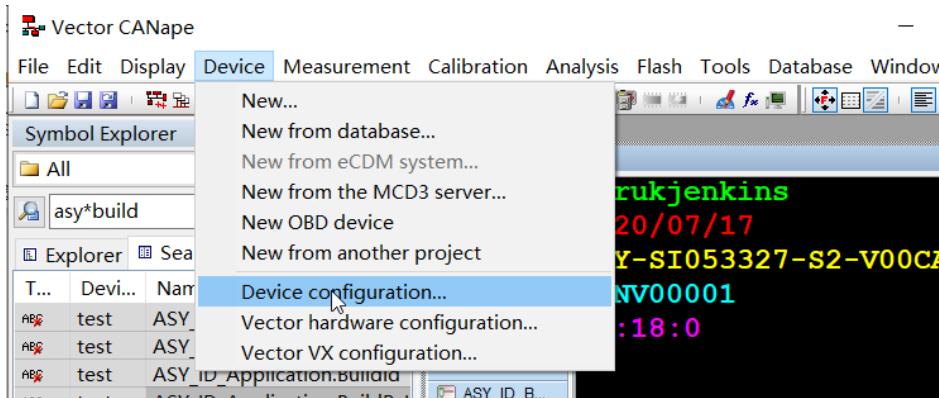
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Title: **CANape Using Introduction**

- Use the same method, can add calibration or measure signal to canape.

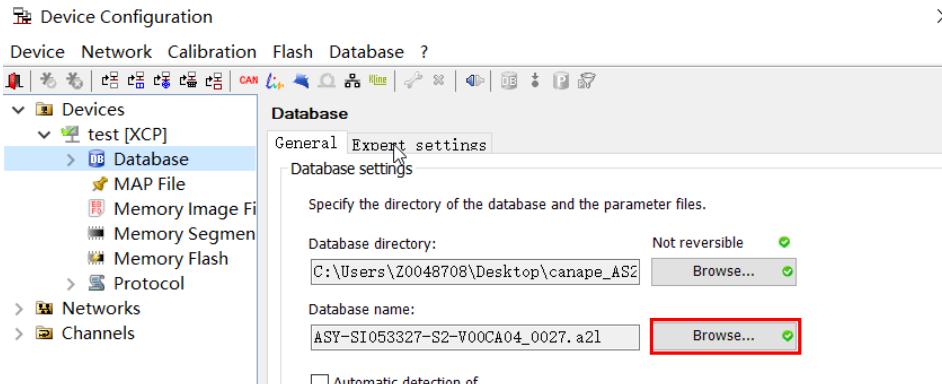
5.4 How to change a2l file

- Click Device configuration

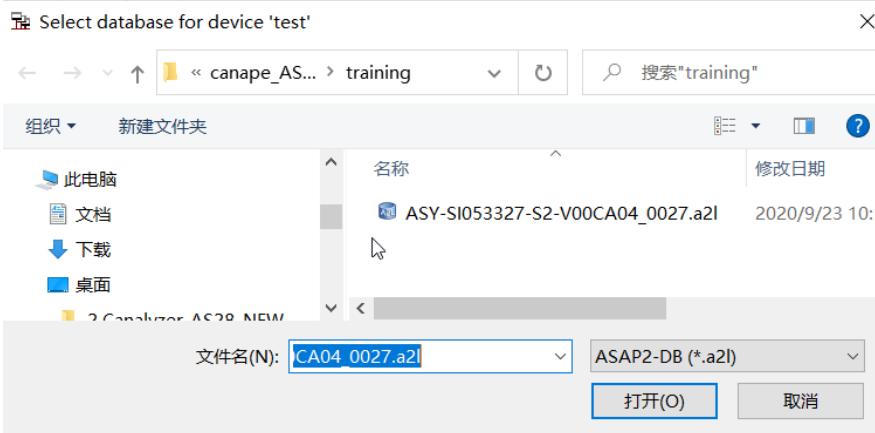


- Select database then click browse

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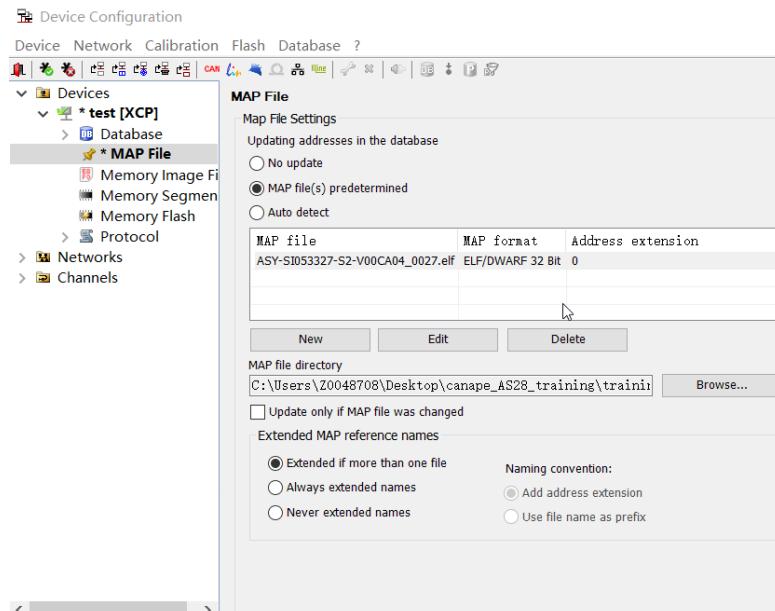


- Select the a2l we want and click ok.



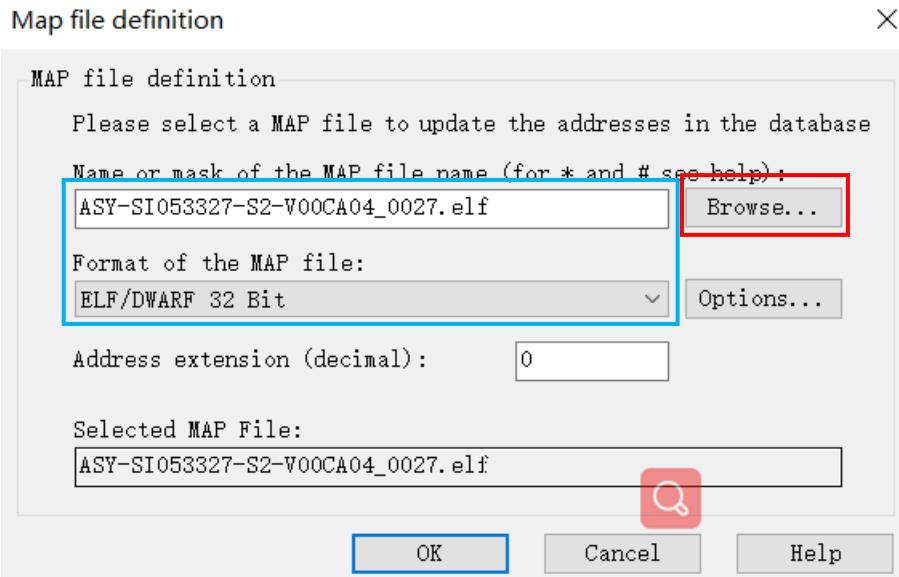
5.5 How to change eif file

- Open device configuration and select map file.



- Double click red area and will pop up a window as below

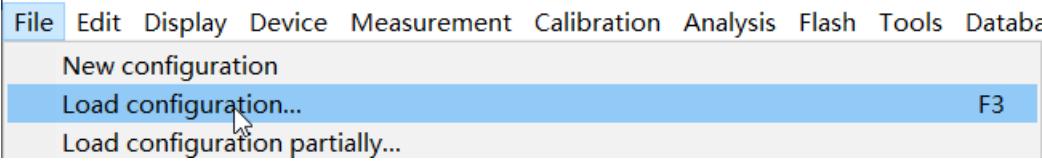
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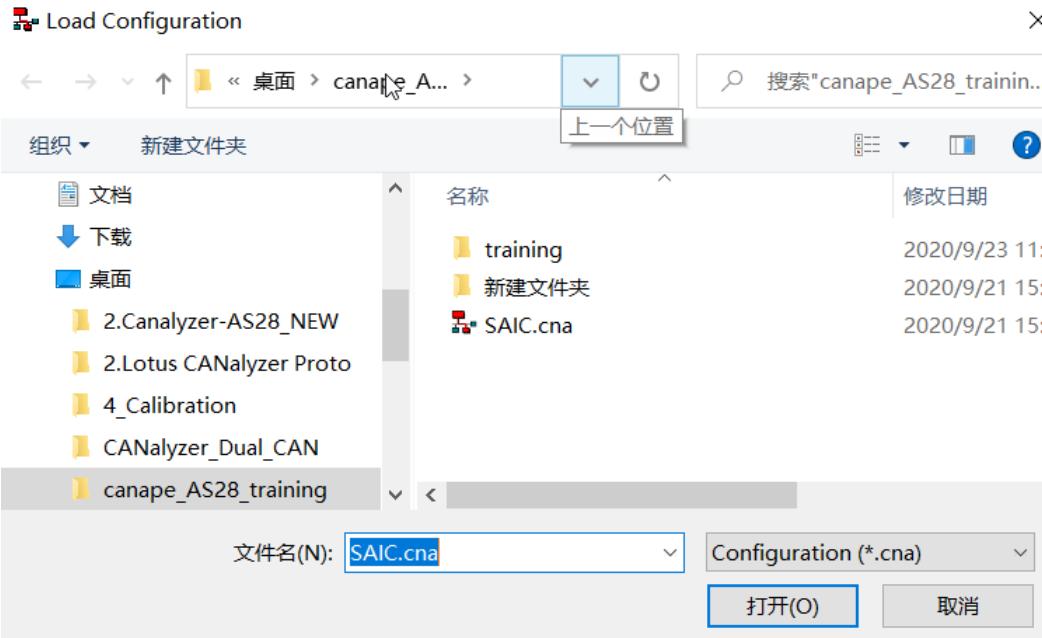
- Click browse to change eif file, the format as blue area setting.

5.6 How to load configuration

- Choose file and click load configuration



- Select needed configuraton file and click open.



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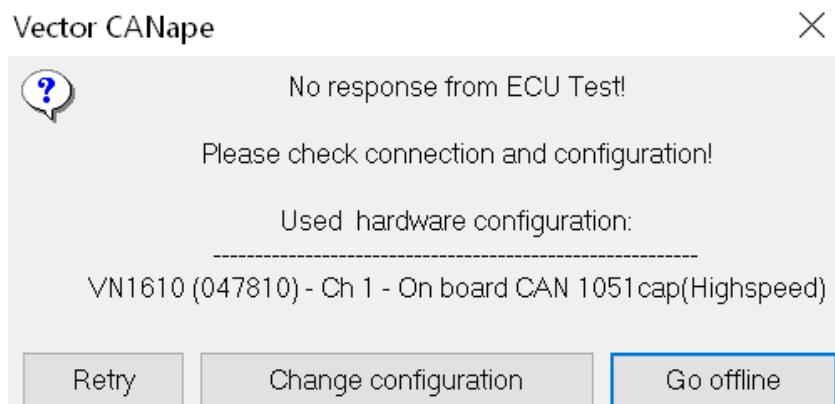


5.7 How to connect

After ignition on. Click the icon as below.



Below will show if couldn't connect.



Please check below items if couldn't connect.

- Check battery and harness had be connected correctly
- Check Canalyzer whether had receive message
- Check TX ID
- Check A2l,confirm software version correctly

As below if connected. then press this button to monitor parameters in the window.

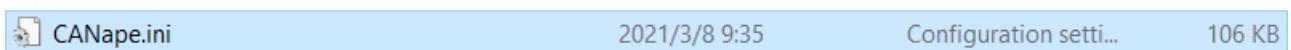


Then press this button to monitor parameters in the window.



5.8 How to use high version CANape to open low version CANape configuration or use low version CANape to open high version CANape configuration

- Open CANape.ini file by notepad in CANape configuration



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TRW EPS Engineering, Shanghai
Engineering Document

Document No.

8078xxxx

ISSUE

Level A00

Date xx/xx/15



Title:

CANape Using Introduction

Page 22 of 59

```
CANape.ini - Notepad
File Edit Format View Help
;-----
; CANAPE.INI
; CANape Project Configuration
;-----
; This file must be located in the working directory.
; Most settings are created by CANape and don't need to be changed manually.
; All timings values in ms
;
; To create a new CANape project, use the 'Create new Project' Icon or
; type a not existing project file name in the project file selection dialog.
;-----

[!!!!_CONSISTENCY_CHECK_START_SECTION_!!!!]
GUID={0CE01009-E9C6-4328-ACB7-34141950657F}

[CONFIG]
; Configurations
;-----
LAST=SAIC.cna
LAST1=SAIC.cna
LAST2=k:\SSE_System\01\13_Personal\To Shoujian\20200605_SLN-GE048746-4280816-SOP_SW_PURL4_RC4(GEBX003 for SX11 & SX12)\Canape-ASY-GE048746-S2-V000A00_0024\Geely.cna
LAST3=D:\Project\B30CD\0525_B30CD\Canape-ASY-GW048754-S2-V00BA01_0009_Tailored by GongChao_20200416\Canape-ASY-GW048754-S2-V00BA01_0009_Tailored by GongChao_20200416\Gre
LAST4=Changan_SFS_test_EAR.cna
LAST5=Changan.cna

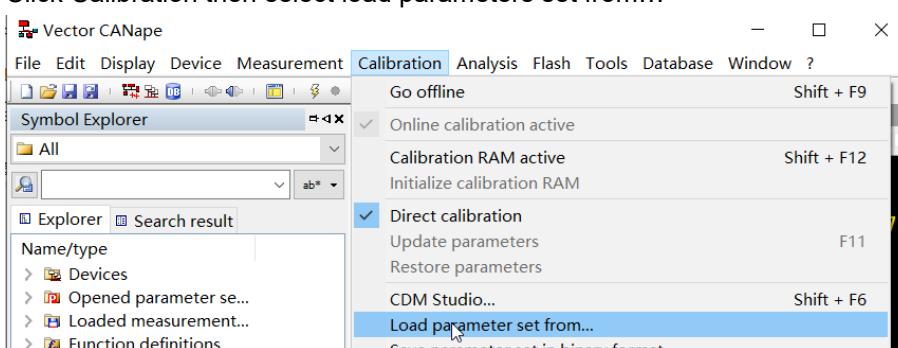
[FILE_INFO]
<

Ln 1, Col 1 100% Windows (CRLF) UTF-8
```

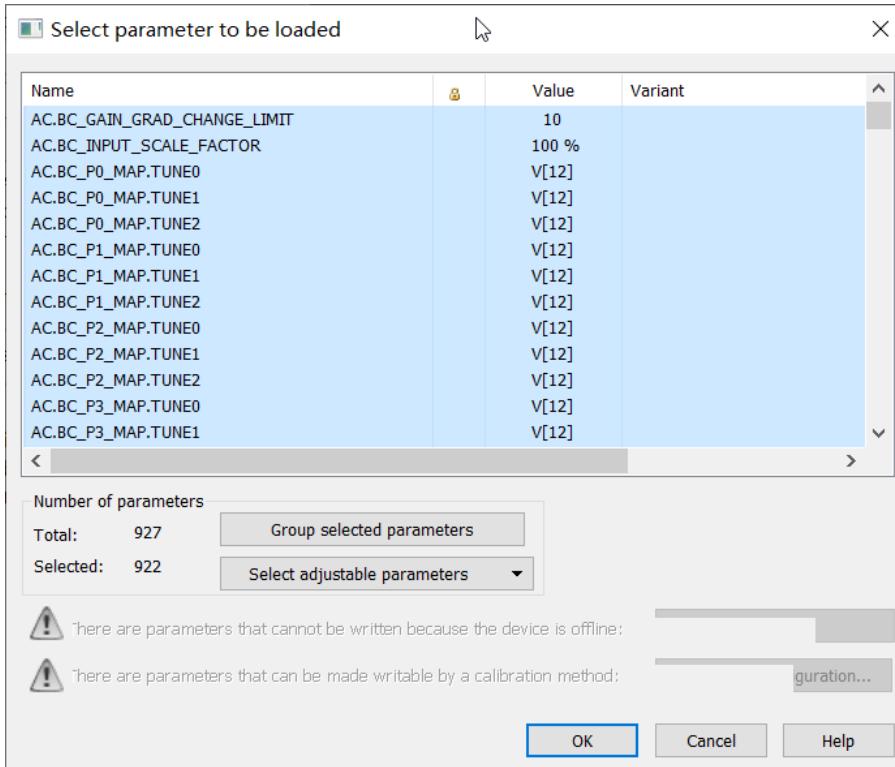
- Find XCP_MAX_DLC=8;
- XCP_COMM_MODE_BASIC=0x80
 XCP_MAX_DLC_REQUIRED=1
XCP_MAX_DLC=8
 XCP_USE_TOOL_SETTINGS=0
 XCP_COMM_MODE_OPTIONAL=0x00
- Change 8 to 64, if original value is 64 , change to 8.

6 CANape Calibration function

6.1 How to load calibration parameters

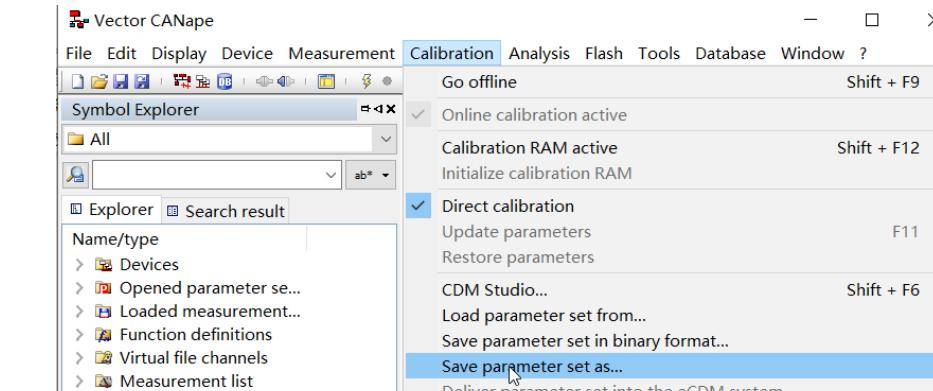
- Click Calibration then select load parameters set from...
- 
- Select correct par file then click button open , next click ok.

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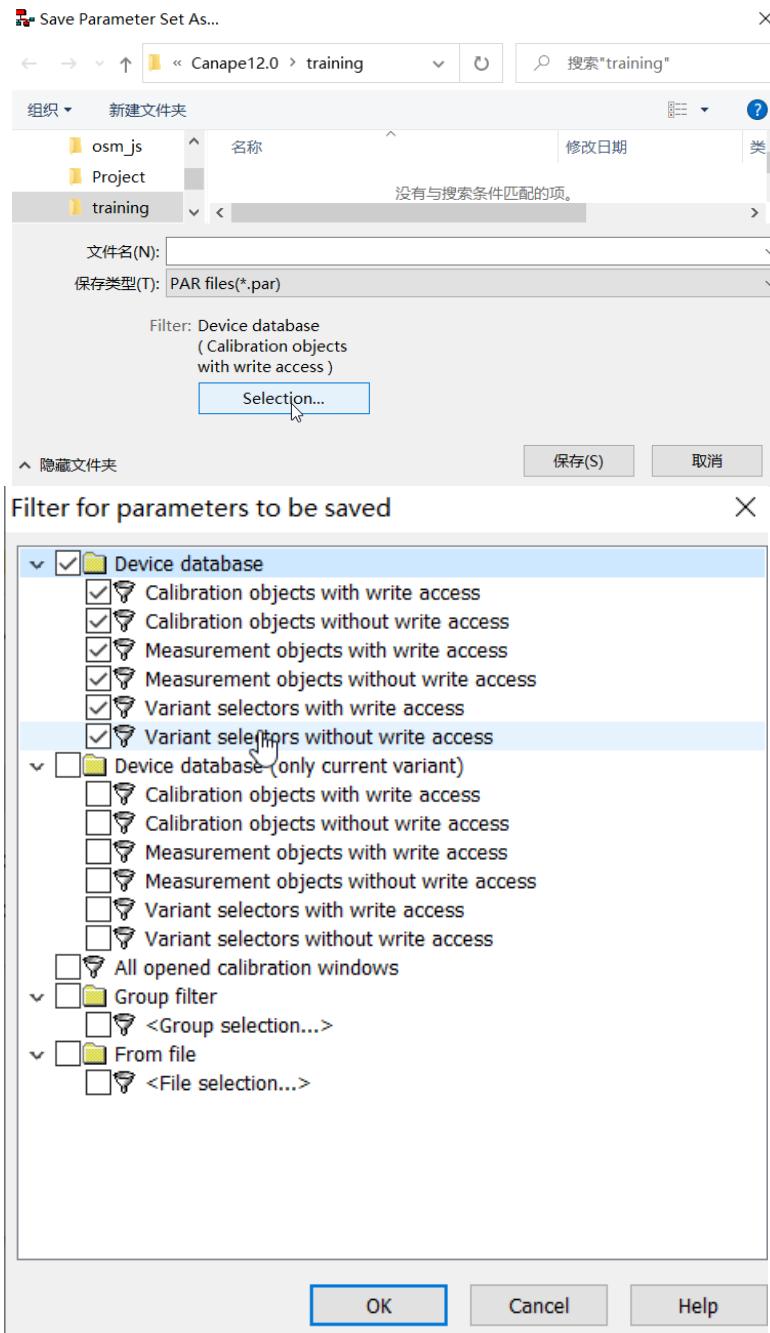
6.2 How to save parameters

- Open Calibration and select Save parameter set as..



- Call a file name and click selection, as below

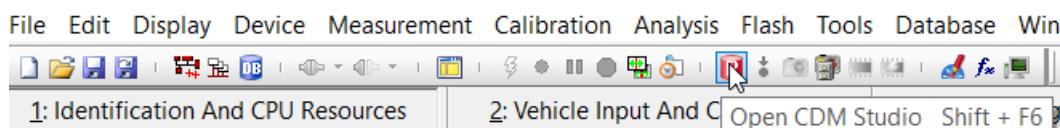
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- Click ok

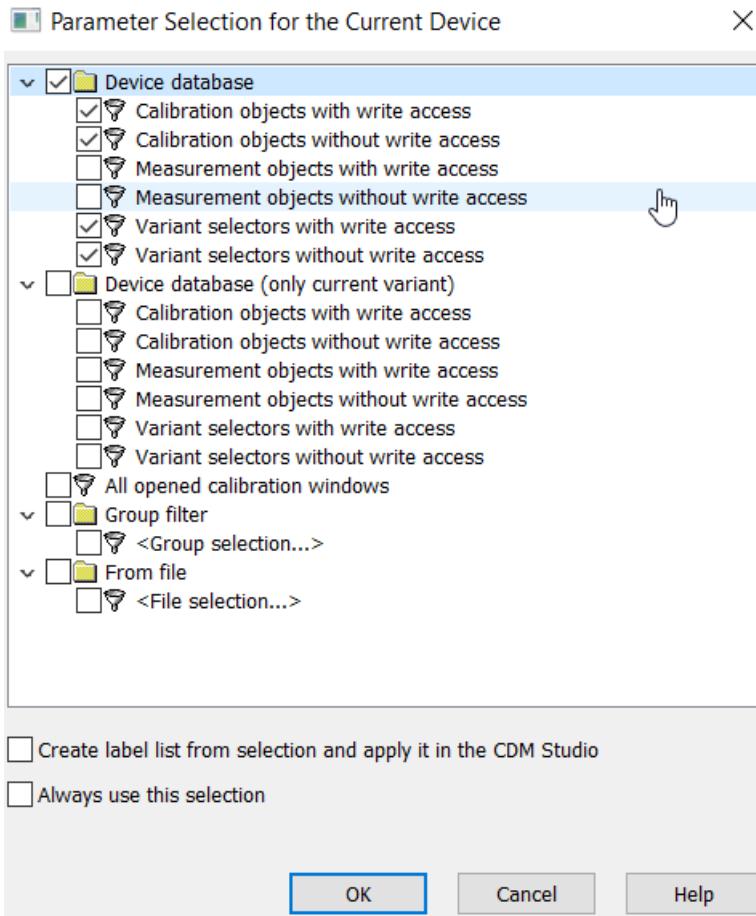
6.3 How to compare calibration parameters

- Open CDM Studio

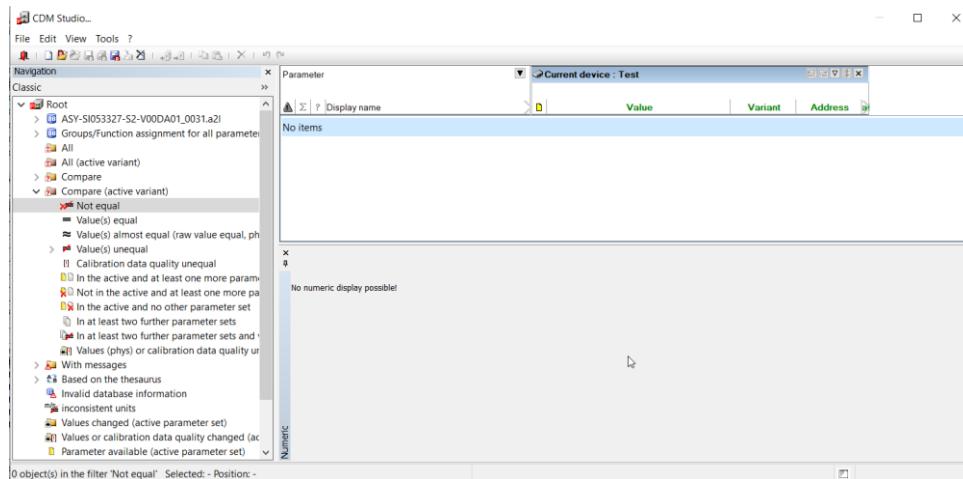


- Select the data type you want to compare

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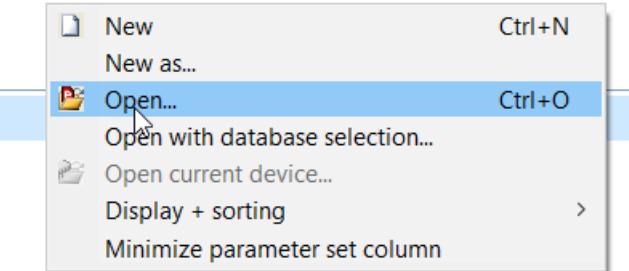


- Click ok



- Open the parfile need to compare

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- On the left, can select not equal value or equal value

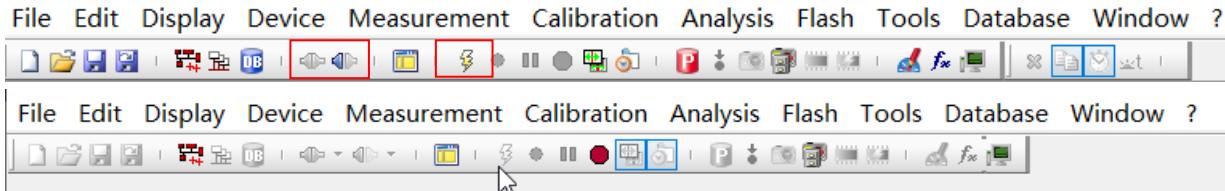
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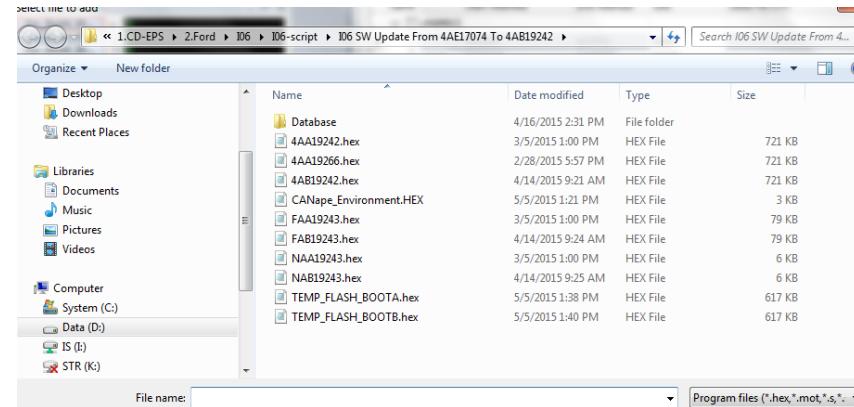
7 CANape measure function

7.1 How to measure signal

- After online, click start button to start measuring

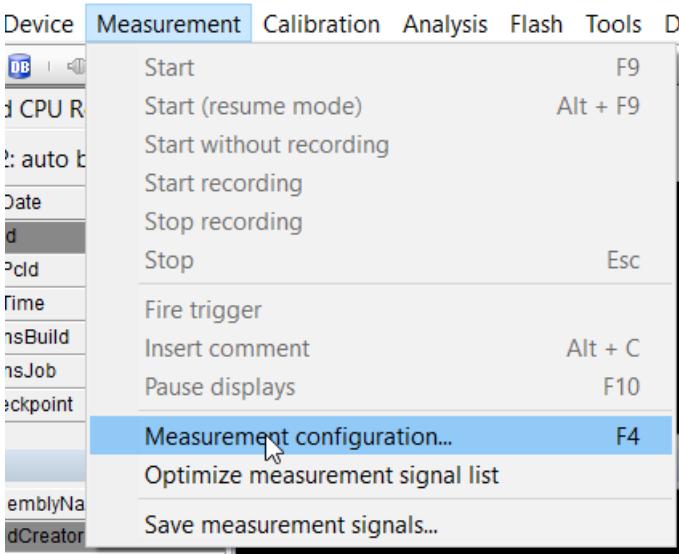


- After finish measure, click stop



7.2 How to set sample frequency

- Open measurement configuration



- Open signal list

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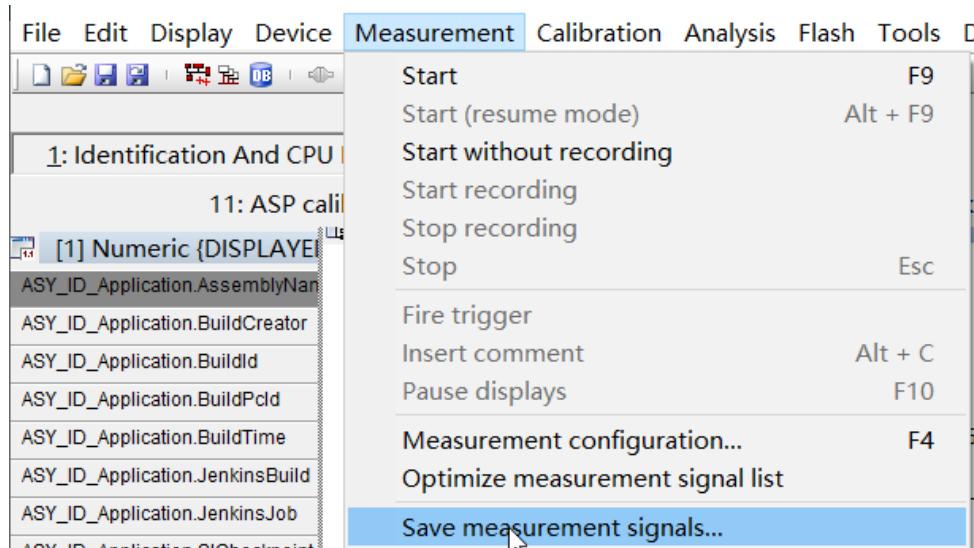
	No	Type	Active	Unit	Name	Measurement mode	Rate
Measurement options	367	Measurement signal	✓		ASY.ID_Tune_S3_V.SICheckpoint	polling	10000
Measurement start	366	Measurement signal	✓		ASY.ID_Tune_S3_V.JenkinsJob	polling	10000
Measurement stop	365	Measurement signal	✓		ASY.ID_Tune_S3_V.JenkinsBuild	polling	10000
Comment template	363	Measurement signal	✓		ASY.ID_Tune_S3_V.BuildTime	polling	10000
Measurement signals	364	Measurement signal	✓		ASY.ID_Tune_S3_V.BuildRid	polling	10000
Test	361	Measurement signal	✓		ASY.ID_Tune_S3_V.BuildId	polling	10000
Task_1ms	360	Measurement signal	✓		ASY.ID_Tune_S3_V.BuildDate	polling	10000
Task_2ms	359	Measurement signal	✓		ASY.ID_Tune_S3_V.BuildCreator	polling	10000
Task_4ms	358	Measurement signal	✓		ASY.ID_Tune_S3_V.AssemblyName	polling	10000
Task_8ms	357	Measurement signal	✓		ASY.ID_Tune_S3_V.SICheckpoint	polling	10000
Task_20ms	356	Measurement signal	✓		ASY.ID_Tune_S3_V.JenkinsJob	polling	10000
EPS_H5_CAN	355	Measurement signal	✓		ASY.ID_Tune_S3_V.JenkinsBuild	polling	10000
NL_max	353	Measurement signal	✓		ASY.ID_Tune_S3_V.BuildTime	polling	10000
Functions	352	Measurement signal	✓		ASY.ID_Tune_S3_V.BuildRid	polling	10000
Global Variables	351	Measurement signal	✓		ASY.ID_Tune_S3_V.BuildId	polling	10000
MATLAB/Simulink models	350	Measurement signal	✓		ASY.ID_Tune_S3_V.BuildPcid	polling	10000
Bypass functions	349	Measurement signal	✓		ASY.ID_Tune_S3_V.BuildDate	polling	10000
Stimulations	348	Measurement signal	✓		ASY.ID_Tune_S3_V.BuildCreator	polling	10000
Multimedia signals	347	Measurement signal	✓		ASY.ID_Tune_S3_V.AssemblyName	polling	10000
dem_cfg_status*	346	Measurement signal	✓		ASY.ID_Bootloader.SICheckpoint	polling	10000
Recorder list	345	Measurement signal	✓		ASY.ID_Bootloader.JenkinsJob	polling	10000
Recorder	344	Measurement signal	✓		ASY.ID_Bootloader.JenkinsBuild	polling	10000
Options	342	Measurement signal	✓		ASY.ID_Bootloader.BuildTime	polling	10000
Trigger	341	Measurement signal	✓		ASY.ID_Bootloader.BuildRid	polling	10000
Attachment	340	Measurement signal	✓		ASY.ID_Bootloader.BuildId	polling	10000
Recorded signals	339	Measurement signal	✓		ASY.ID_Bootloader.BuildDate	polling	10000
Test	338	Measurement signal	✓		ASY.ID_Bootloader.BuildCreator	polling	10000
EPS_H5_CAN	9	Measurement signal	✓		ASY.ID_Application.AssemblyName	polling	10000
NL_max	8	Measurement signal	✓		ASY.ID_Application.SICheckpoint	polling	10000
Functions	7	Measurement signal	✓		ASY.ID_Application.JenkinsJob	polling	10000
Global Variables	5	Measurement signal	✓		ASY.ID_Application.JenkinsBuild	polling	10000
MATLAB/Simulink models	4	Measurement signal	✓		ASY.ID_Application.BuildTime	polling	10000
Bypass functions	3	Measurement signal	✓		ASY.ID_Application.BuildRid	polling	10000
Stimulations	2	Measurement signal	✓		ASY.ID_Application.BuildId	polling	10000
Multimedia signals	1	Measurement signal	✓		ASY.ID_Application.BuildDate	polling	10000
Invert search mask here	0	Measurement signal	✓		ASY.ID_Application.BuildCreator	polling	10000
Event list	651	Measurement signal	mS		ASY.ID_Application.AssemblyName	polling	10000
Signal events	650	Measurement signal			AMC.CalibrationParametersLIMP_HOME_MAX_OPERATIONAL_TIME	polling	10000
Keyboard events	650	Measurement signal			AMC.CalibrationParametersLIMP_HOME_KEY_CYCLE_COUNTER_LIMIT	polling	10000
System events	579	Measurement signal	Nm		CRC.CalibrationParametersMAX_AVAIL_ARTE_ASCHT	polling	10000

- Set sample frequency in 'measurement mode'

Name	Measurement mode	Rate
ASY_ID_Tune_S3_V.SICheckpoint	polling	10000
ASY_ID_Tune_S3_V.JenkinsJob	polling	10000
ASY_ID_Tune_S3_V.JenkinsBuild	Task_1ms	
ASY_ID_Tune_S3_V.BuildTime	Task_2ms	
ASY_ID_Tune_S3_V.BuildPclid	Task_4ms	
ASY_ID_Tune_S3_V.BuildId	Task_8ms	
ASY_ID_Tune_S3_V.BuildDate	Task_20ms	
ASY_ID_Tune_S3_V.BuildCreator	polling	

7.3 How to save measurement

- Select measurement and click save measurement signals...



- Select suitable option then click ok.

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Save Signals

Signals

All signals from measurement buffer
 All displayed signals from measurement buffer
 All signals from file:

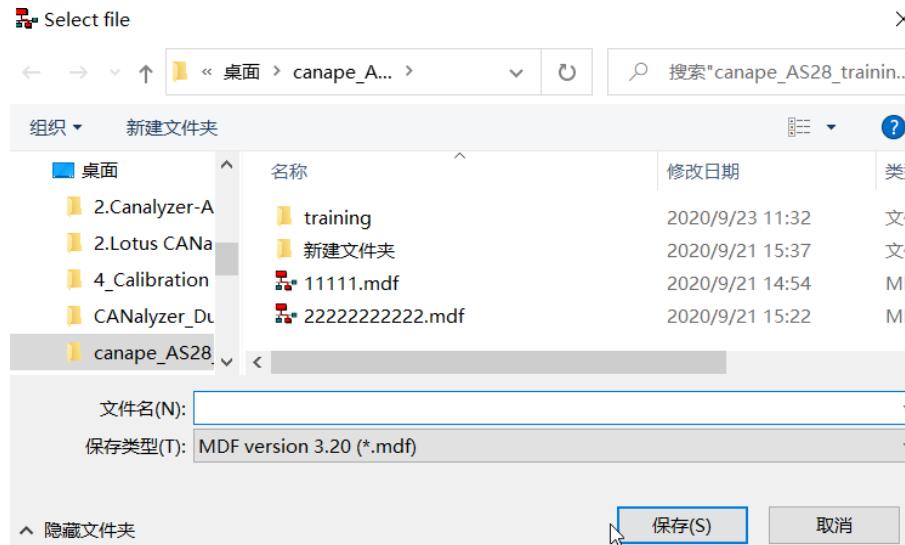
Time stamp

Accept original time stamp
 Fit time stamp to start at zero

Time range

Whole time range
 Visible time range
 Start to cursor
 Cursor 1 to cursor 2
 Cursor to end
 User defined range
 from: 3m 25.711943s
 to: 0s
 Remove time range
 Move single values outside the time range

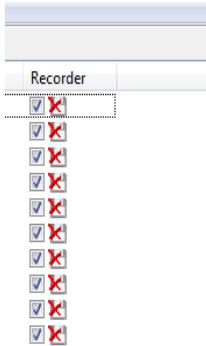
- After rename, click save.



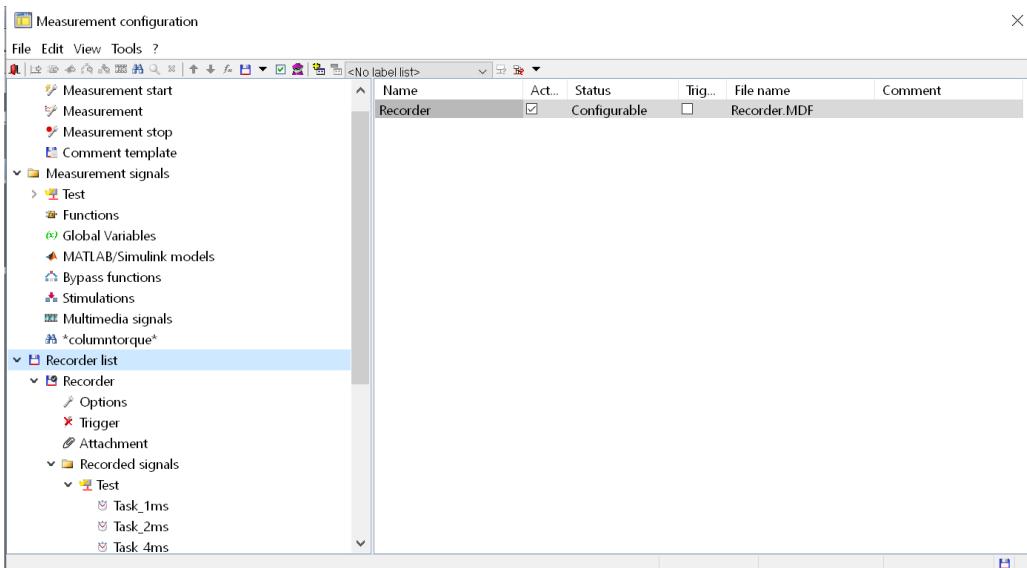
7.4 How to save measurement signals automatically

- Choose Measurement signals, make sure that the recoder of the signal is selected.

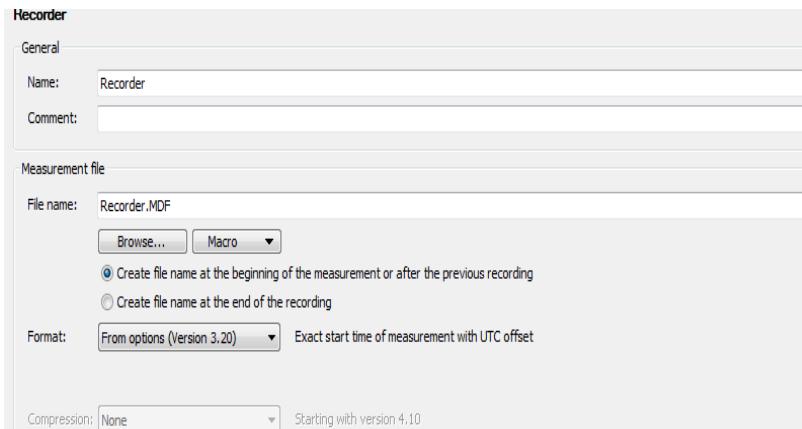
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- Go to Recoder list, choose Active



- Go to Recoder list→Recoder



- Press the button "Browse.." to set where to save these mdf files.
- Select a file, then click "Save".

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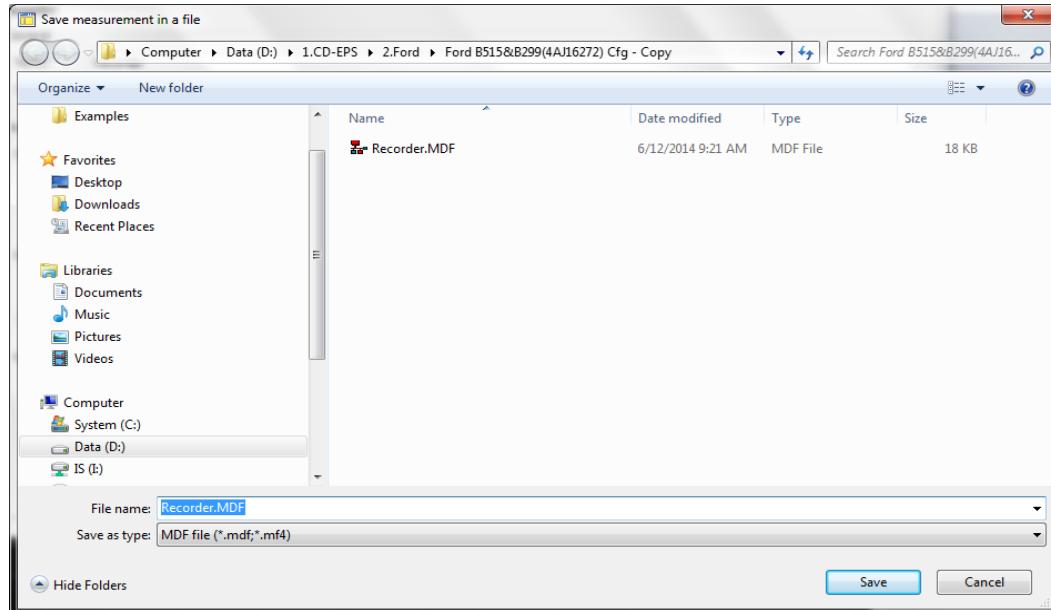
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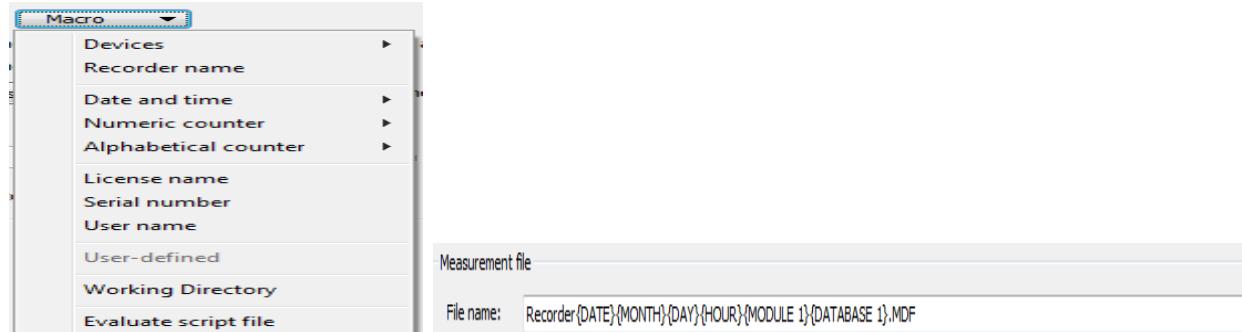
ISSUE	Level A00
	Date xx/xx/15



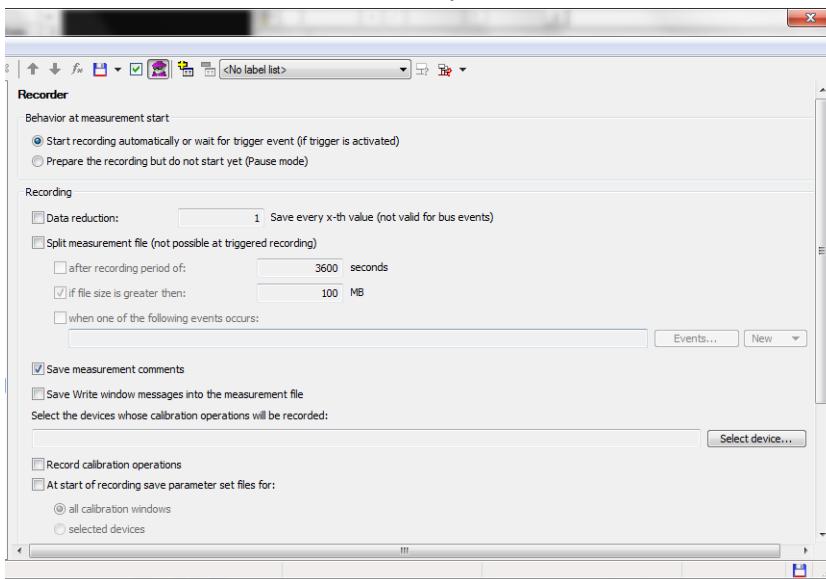
Title: **CANape Using Introduction** Page 31 of 59



- Press the button "Macro..." to add the information you want to add into the mdf file name



- Go to Recorder list→Recorder→Options.

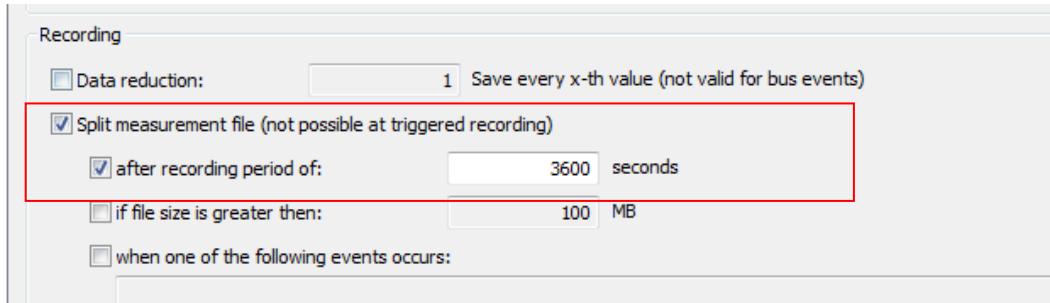


- Here you can set the record rule, for example, every hour save a .mdf file.

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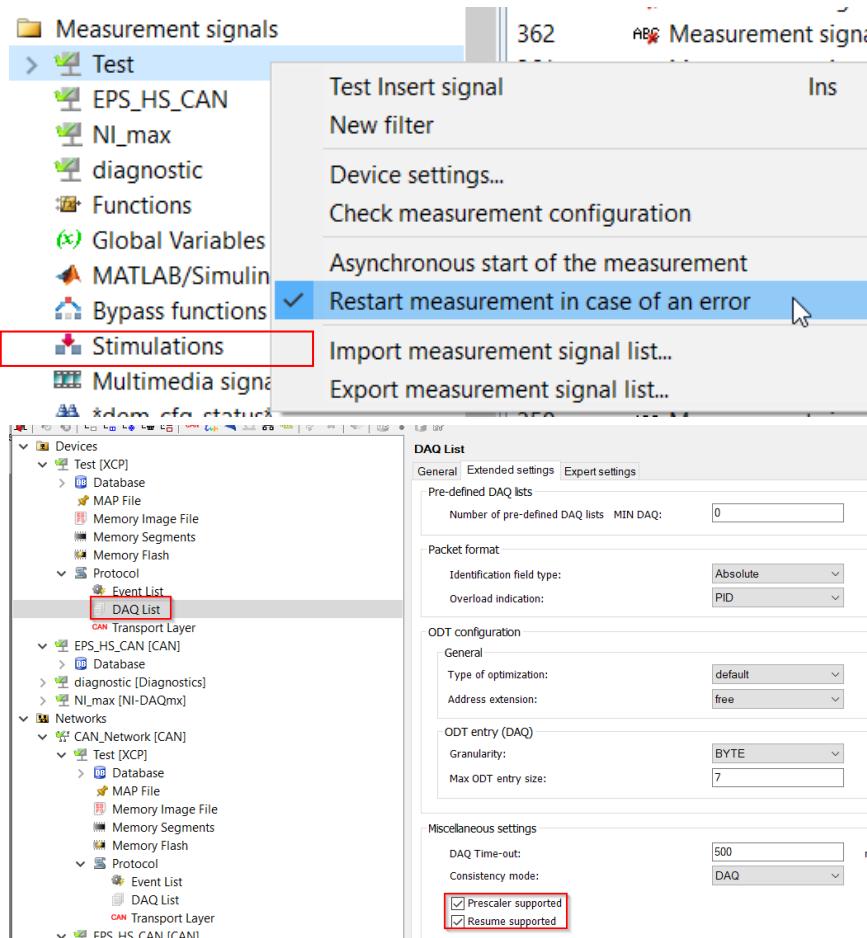
- Choose “Split measurement file”, choose “after recording period of”, type in the time.



- After this step, save and close the measurement configuration. And start the measurement, the program will auto save the mdf file every hour.

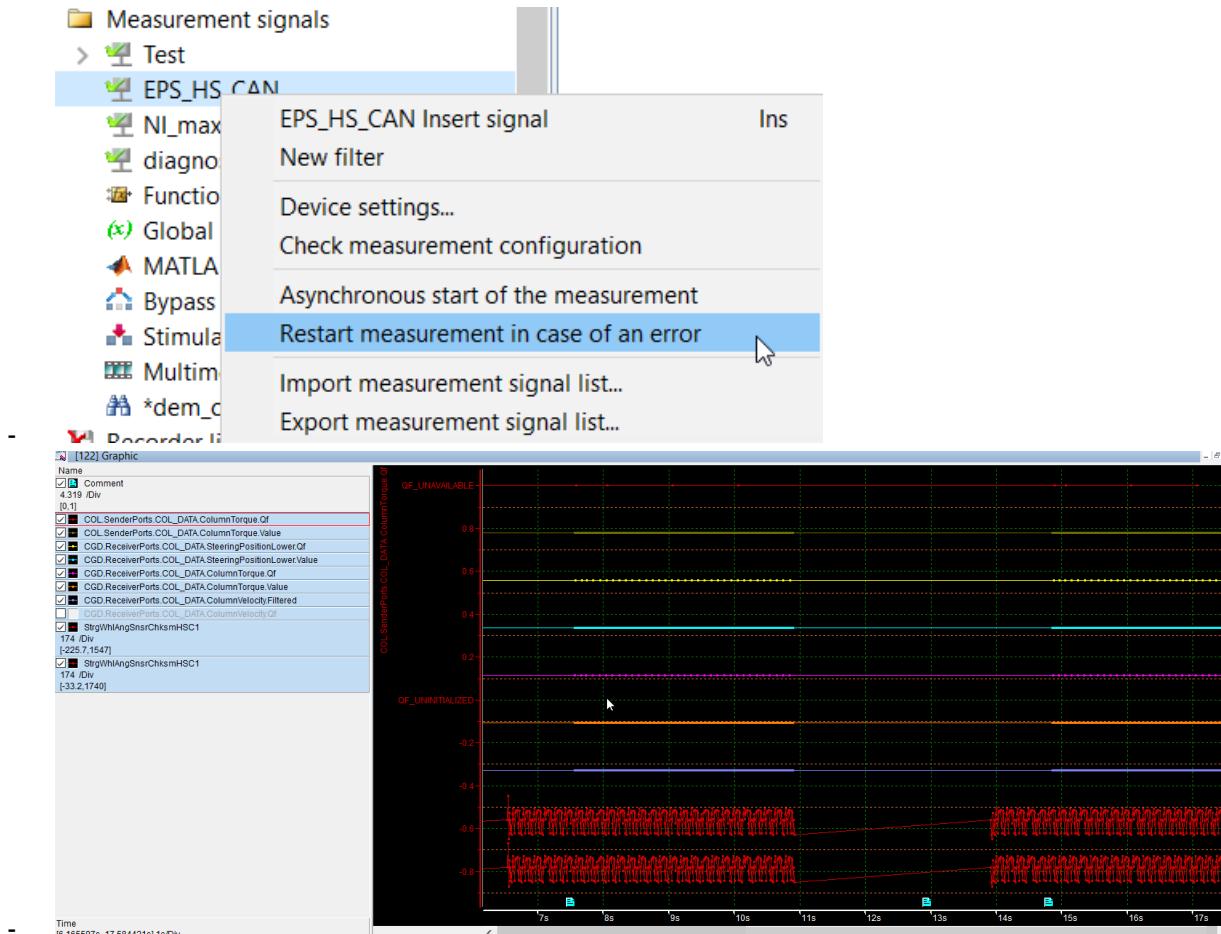
7.5 How to measure signal not interrupt when CANape ignition on /off

- For XCP signal, setting as below:



- For CAN dbc signal, setting as below:

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- From actually test, we find that XCP signal will have a error when restart measuring, that will cause a time delay. So we suggest use CAN dbc signal to measure ignition on/off time if you want to test ECU ignition on time.

7.6 How to save measurement data as file size or time

Open recorder list, select options:

In red box, choose split measurement file.

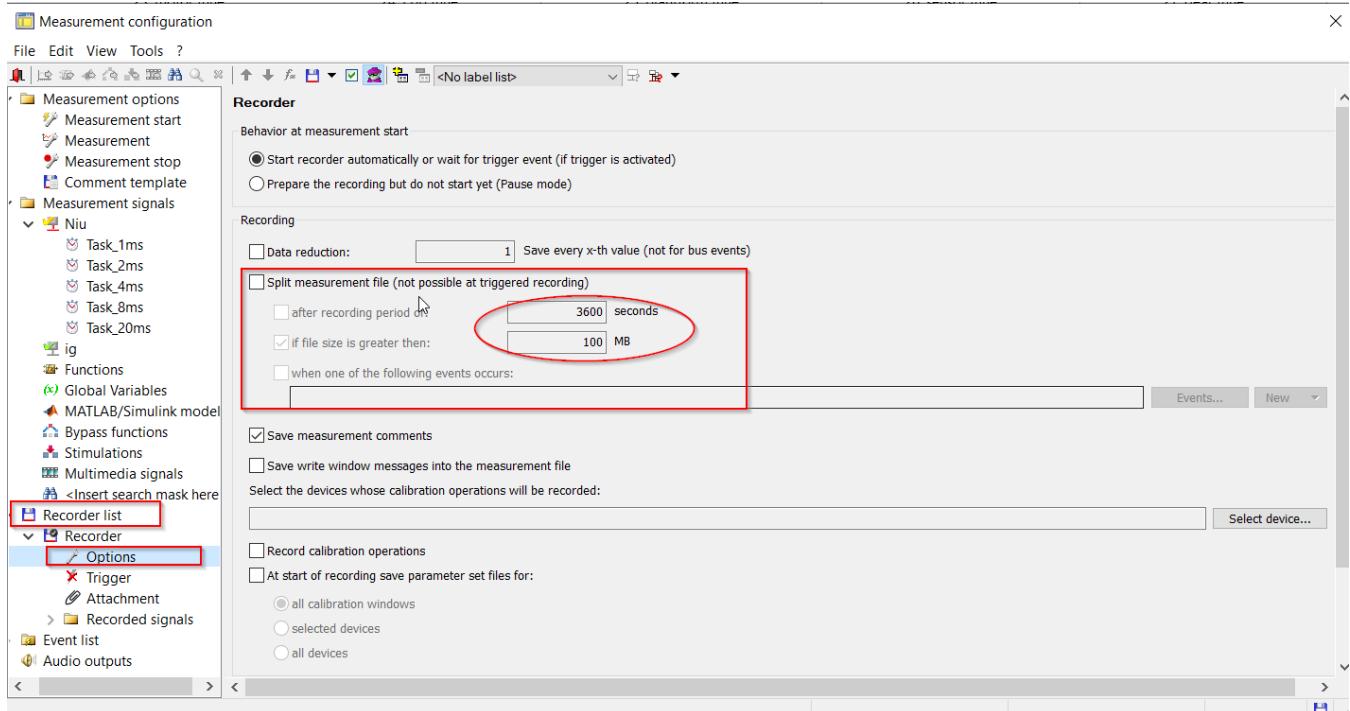
Then we can save measurement data as file size or time.

For example:

If we record a 200M MDF file, we set file size is greater than 20M, we will get 10 20M-MDF files.

If we record a period time data(100s), we set after recording period time 20s, we will get 5 20s-MDF files.

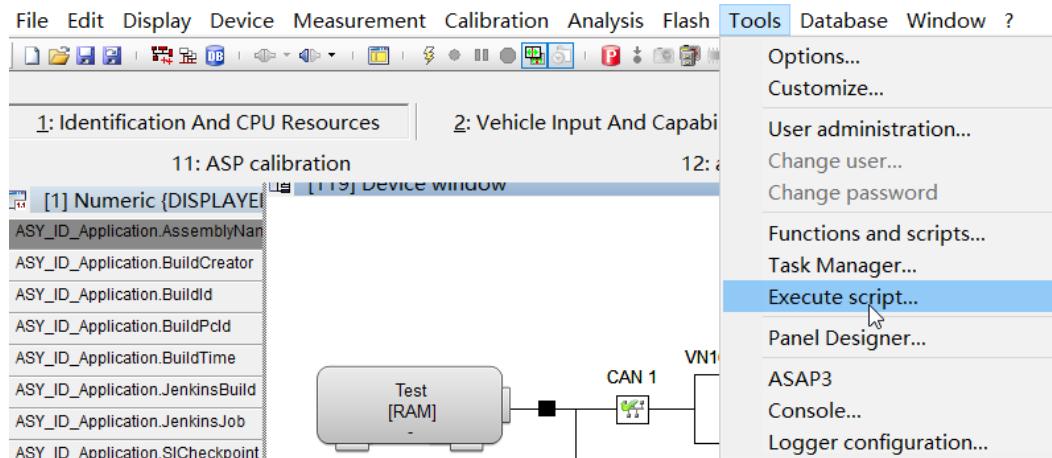
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8 CANape script function

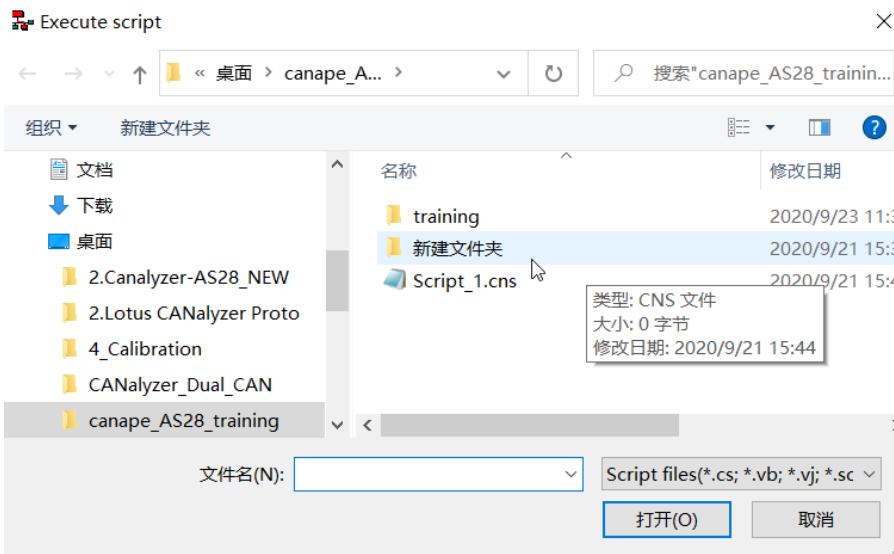
8.1 How to execute script

- Choose Tool and click execute script



- Select the script need to run and click open

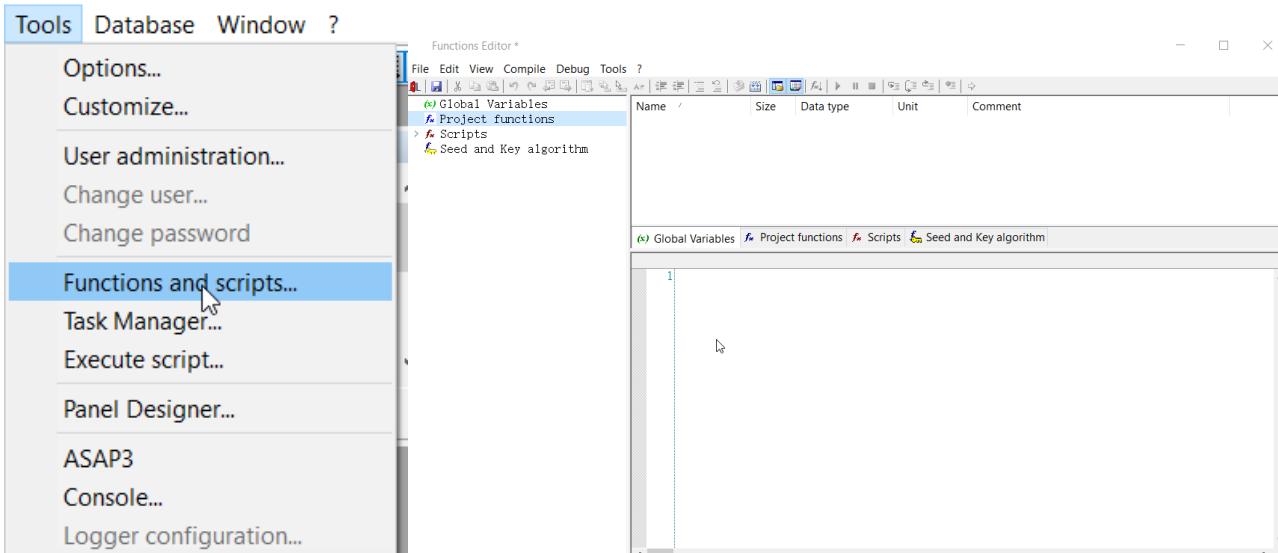
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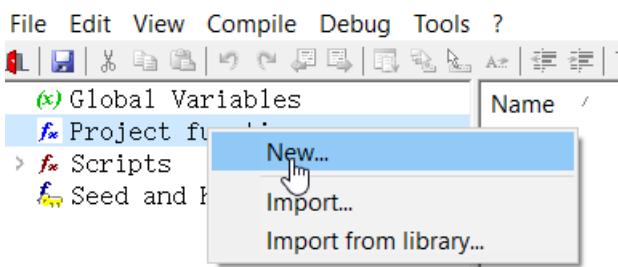
9 CANape function performance(fx)

9.1 How to set (fx) virtual channel

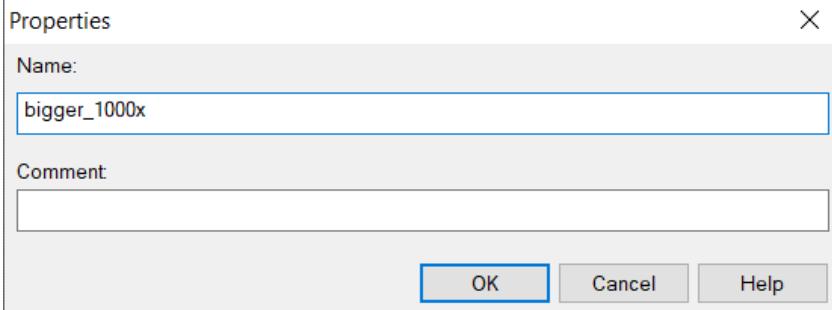
- Open fx tool



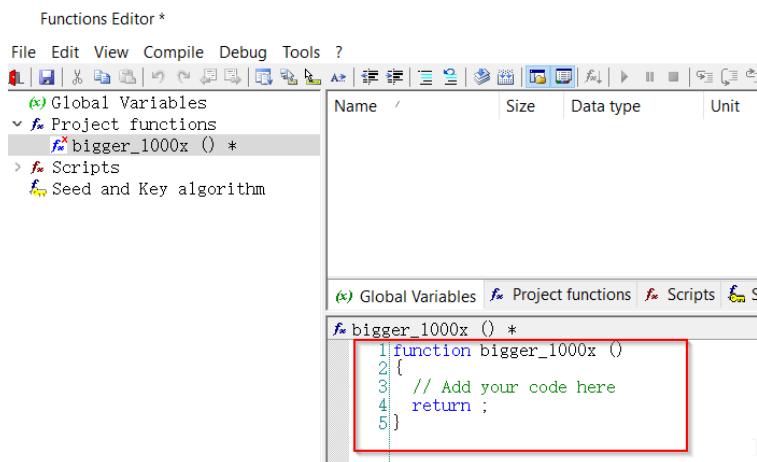
- New fx function



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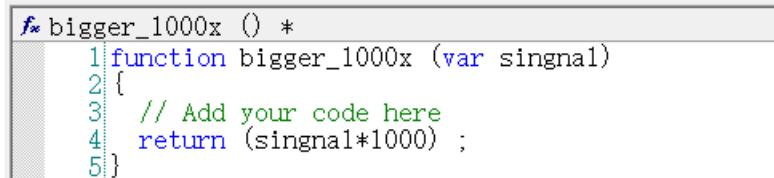


Set fx function code in red area

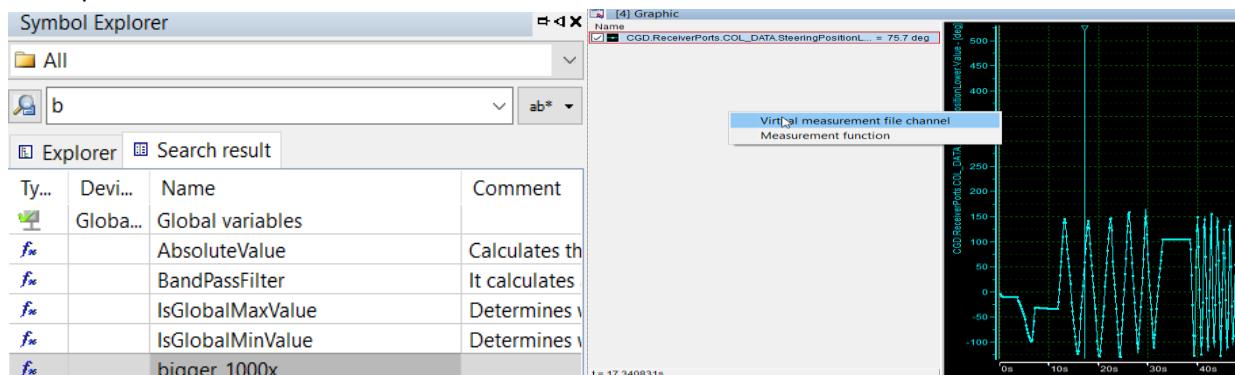


For example, magnify 1000x

Set code

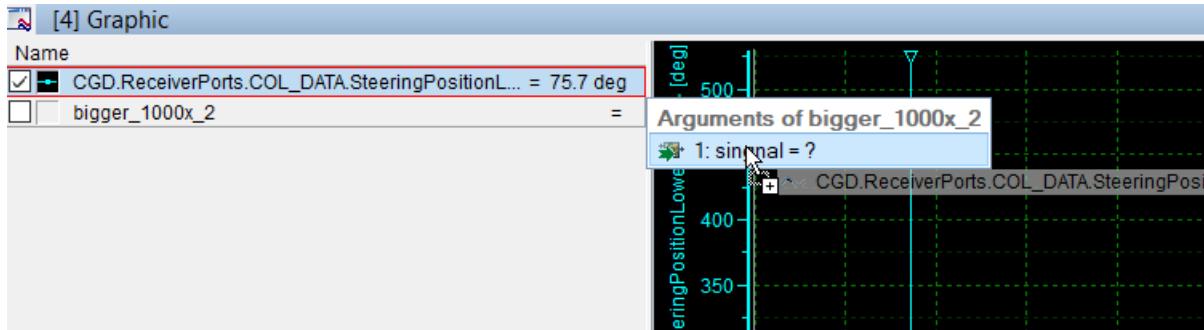


In Graphic window, set virtual channel

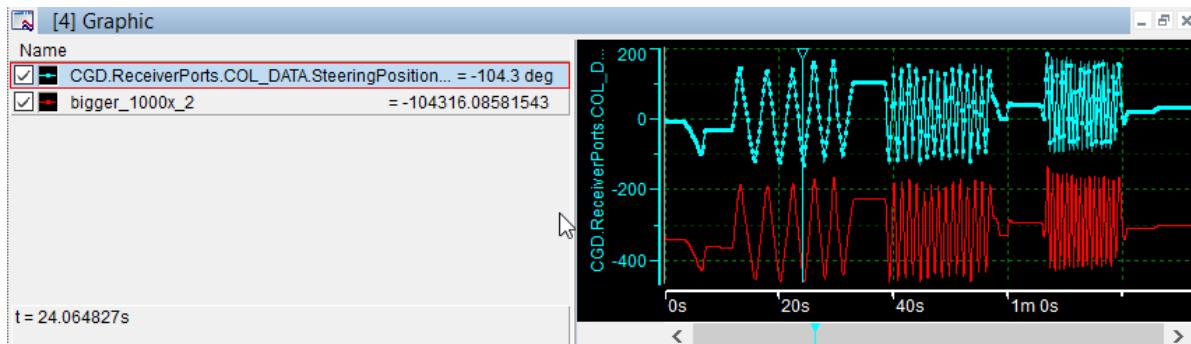


Drag signal into virtual channel

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Virtual signal will become 1000x



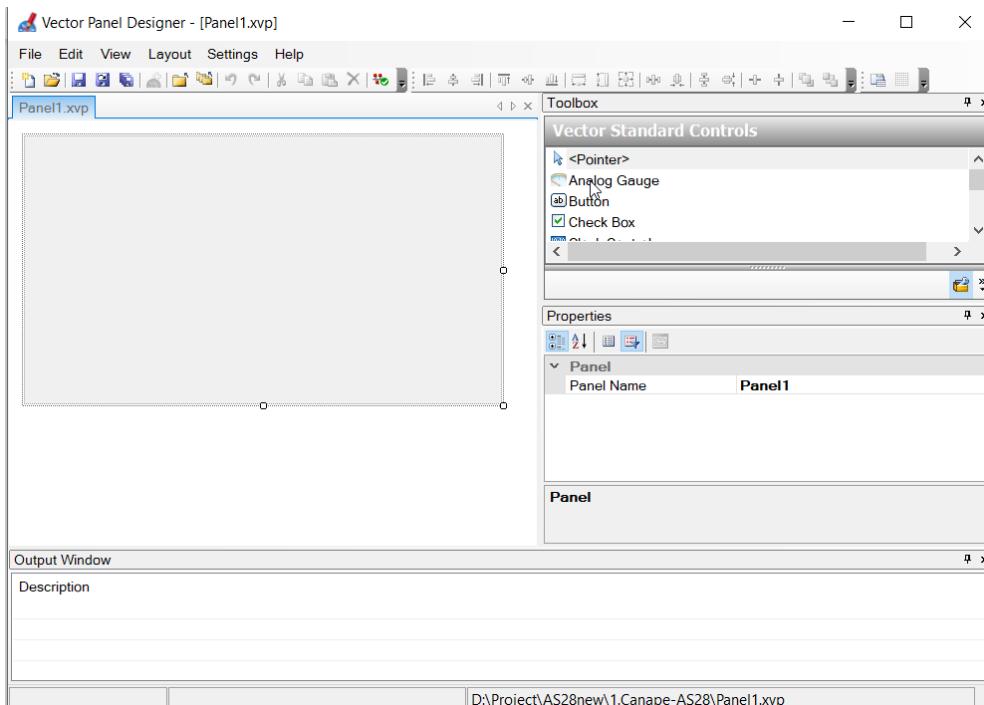
10 Pannel design

- Open pannel designer
- Calibration Analysis Flash Tools Database Window ?

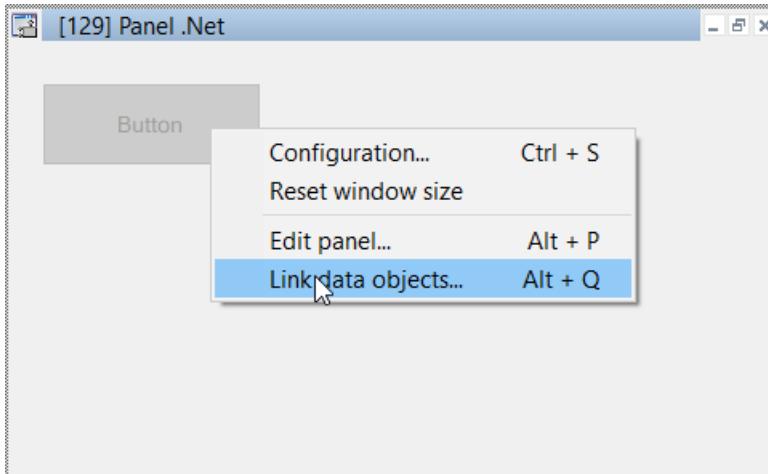


- Design pannel window

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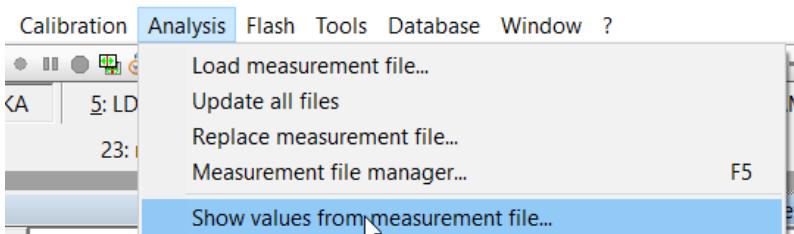
- Link script



11 CANape Data process function

11.1 Data analysis

11.1.1 Open MDF file by normal using CANape configuration



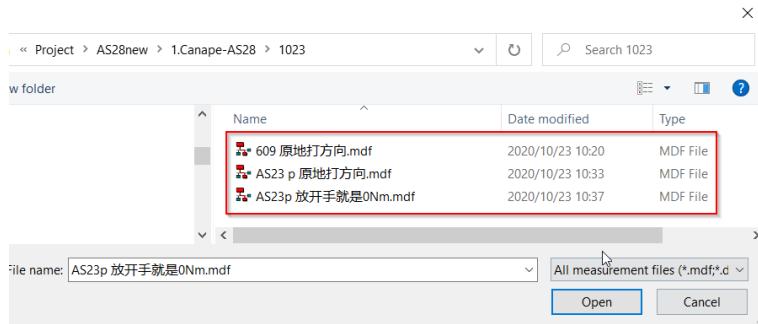
Select MDF file

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CANape Using Introduction



11.1.2 Directly open MDF file

- Double click MDF file

001467-原地慢中快 打方向.mdf 2020/10/22 10:55 MDF File 144 KB

Select the signal then click apply, save

Signal selection

Content of: 'Signals'

Type	Name	Data ty...	Unit	Network node	Source	Number of...	Comment
CGD.COL_DATA.ColumnTorque.Qf	INT(32)				Test	922	MICROSAR RTE
CGD.COL_DATA.ColumnTorque.V...	FLOAT	Nm			Test	4591	MICROSAR RTE
CGD.COL_DATA.ColumnVelocity...	FLOAT	revs/S			Test	4591	MICROSAR RTE
CGD.COL_DATA.ColumnVelocity...	INT(32)				Test	922	MICROSAR RTE
CGD.COL_DATA.SteeringPosition...	INT(32)				Test	922	MICROSAR RTE
CGD.COL_DATA.SteeringPosition...	FLOAT	deg			Test	4591	MICROSAR RTE
COLCOL_DATA.ColumnTorque.Qf	INT(32)				Test	93	MICROSAR RTE
COLCOL_DATA.ColumnTorque.V...	FLOAT	Nm			Test	4591	MICROSAR RTE
Comment	STRING(..)				User comments	3	CANape user comment during
TAS.TorqueAngleSensorNvmDat...	FLOAT	Nm			Test	922	MICROSAR RTE
TorqueAngleSensor.NewZeroTor...	FLOAT	Nm			Test	922	When WriteZeroTorqueTrim is

Vector CANape

File Edit Display Device Measurement Calibration Analysis Flash Tools Database Window ?

(1) 001467-原地慢中快 打方向.mdf

TorqueAngleSensor.NewZeroTorque

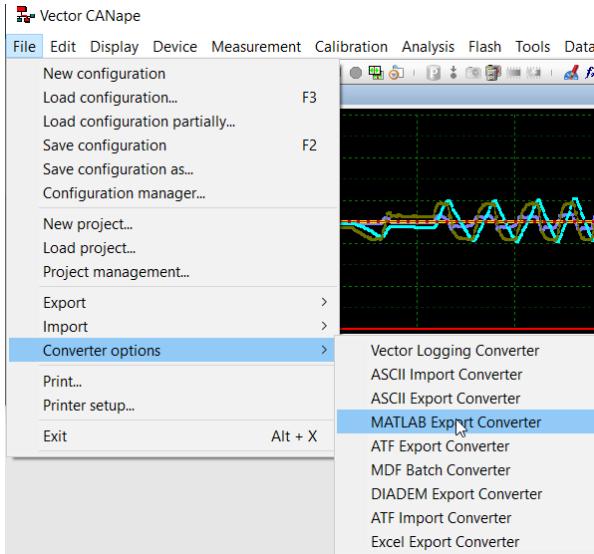
Time [0s, 1m 32.18952s] 10s/Div

11.2 Data export

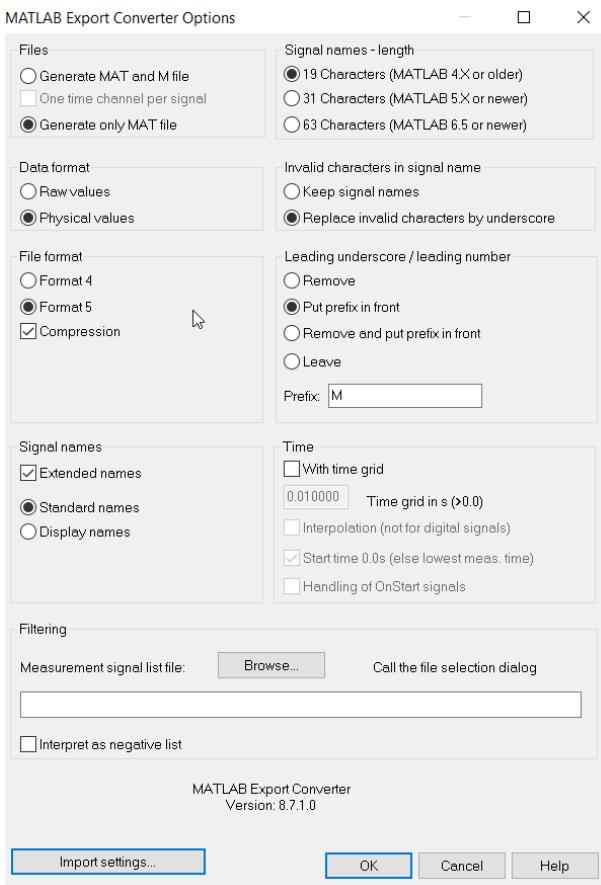
11.2.1 Normally export other format data (will export all measurement signals)

Set convert option

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For example, matlab format file setting

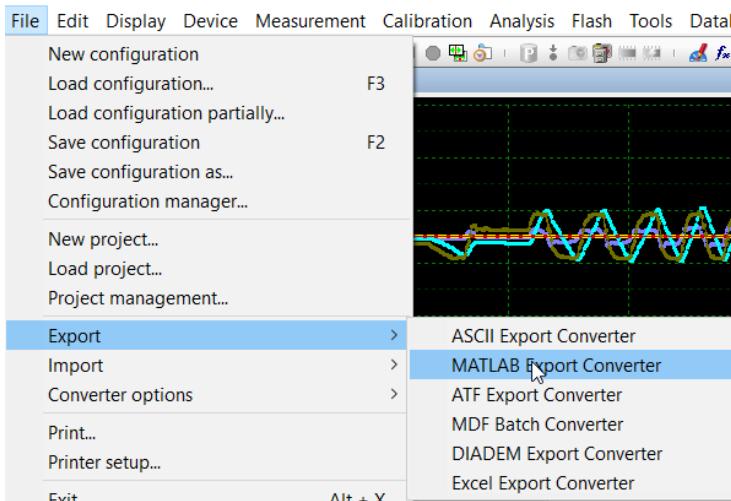


Export matlab file

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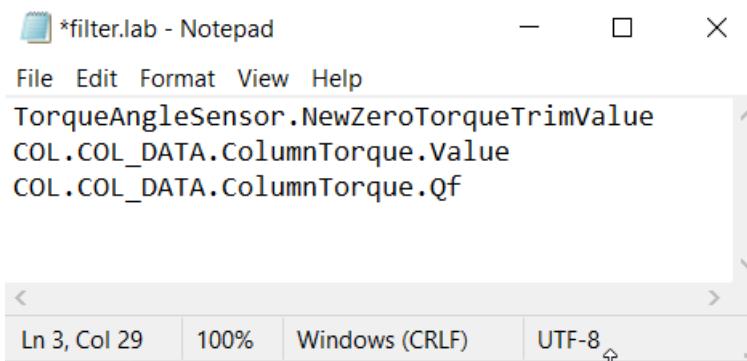
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	ISSUE	Level A00	
		Date xx/xx/15	
Title: CANape Using Introduction	Page 41 of 59		

Vector CANape

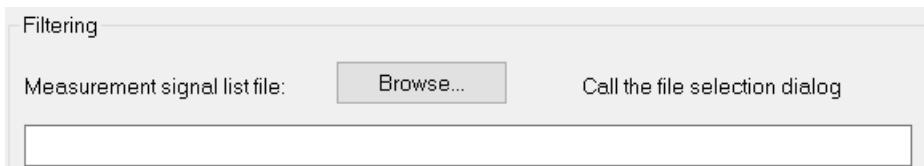


11.2.2 Data filter

Set ' .lab ' file, write signal name to .lab file, save .lab file



In converter option window, filter choose .lab file



Normally export matlab file

12 How to export Faultlist by A2I config

- Open CANape config

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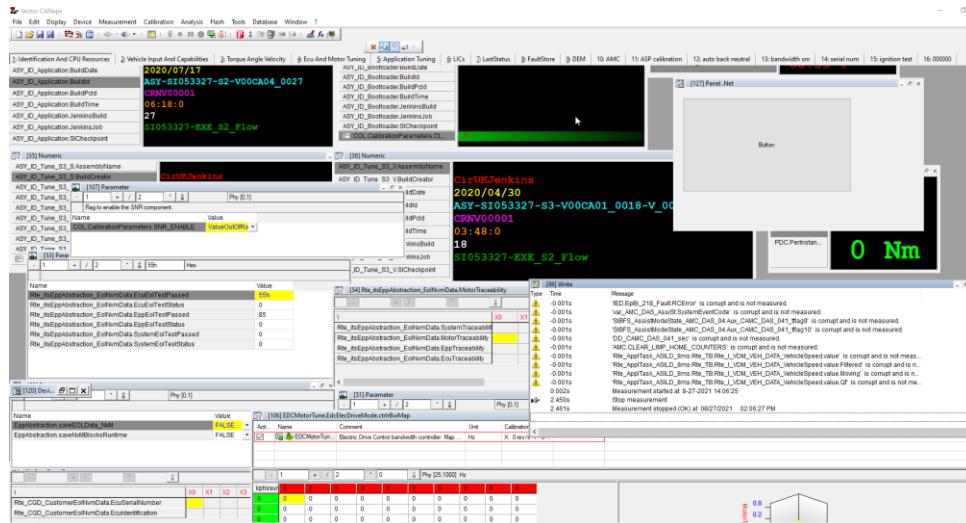
Level A00

Date xx/xx/15

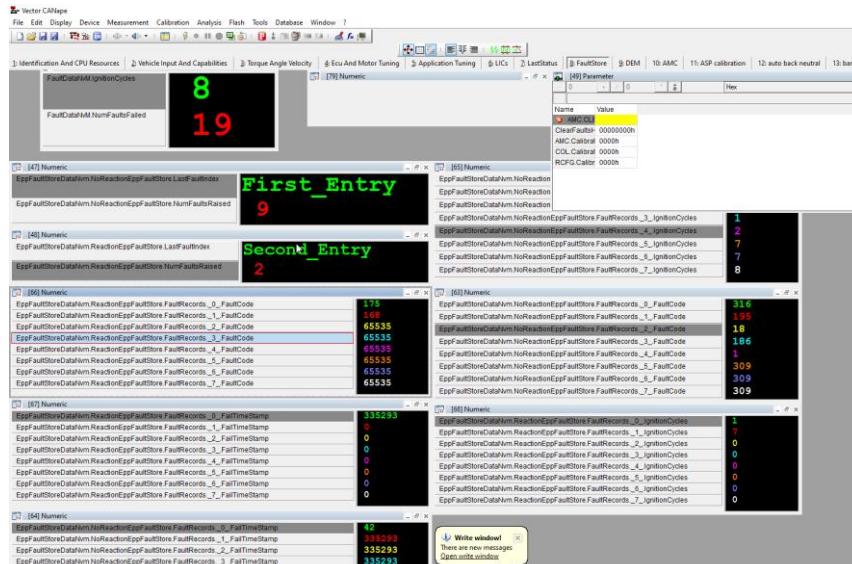
Title:

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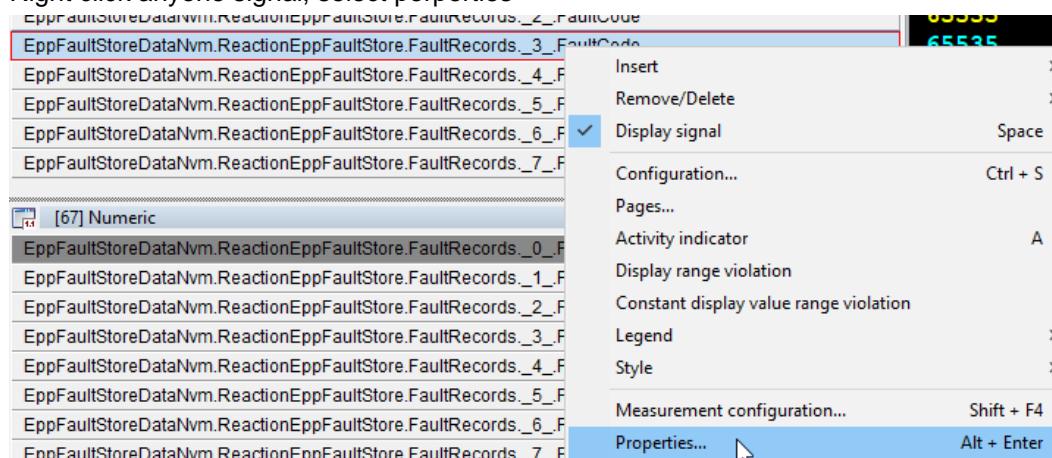
Page 42 of 59



- Open Faultstore page



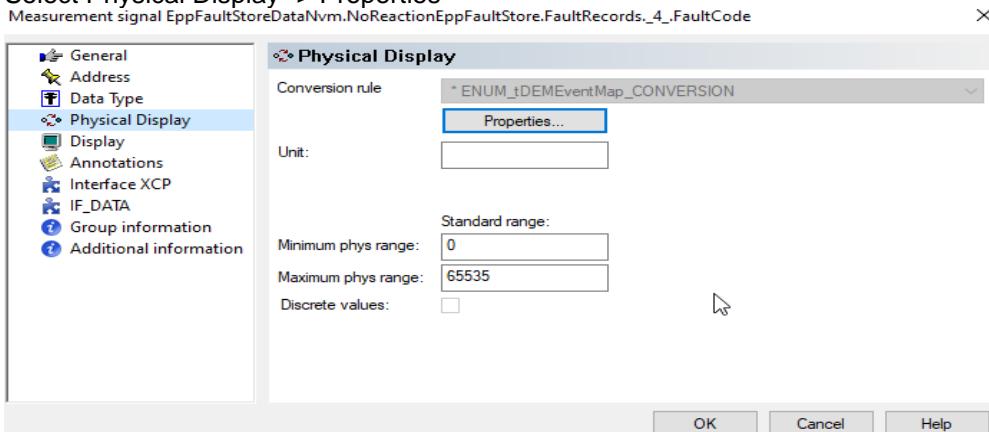
- Right click anyone signal, select porperties



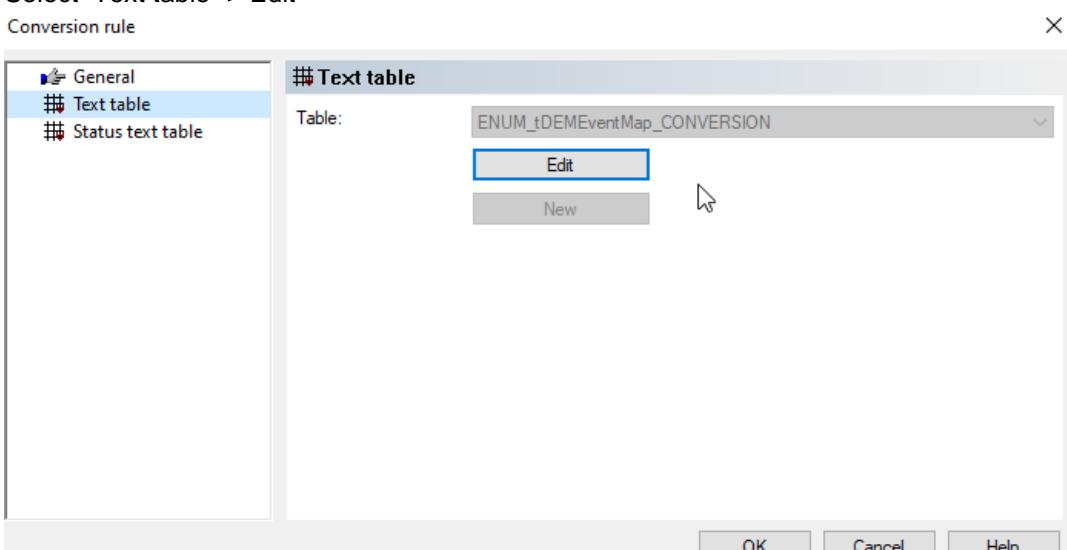
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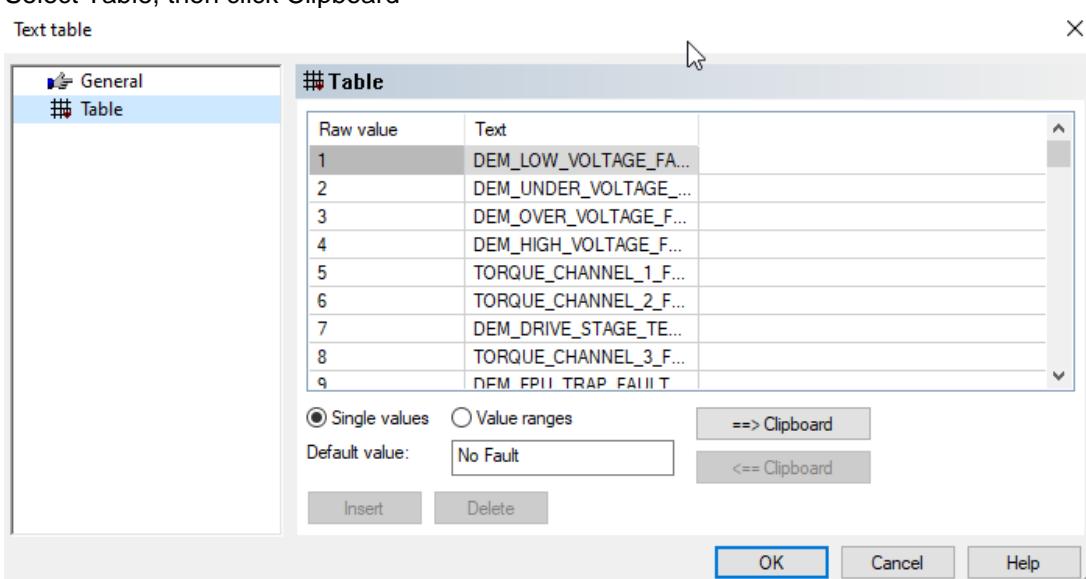
- Select Physical Display -> Properties



- Select Text table -> Edit



- Select Table, then click Clipboard



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TRW EPS Engineering, Shanghai Engineering Document	Document No.	8078xxxx		
	ISSUE	Level	A00	
		Date	xx/xx/15	
Title:	CANape Using Introduction		Page 44 of 59	

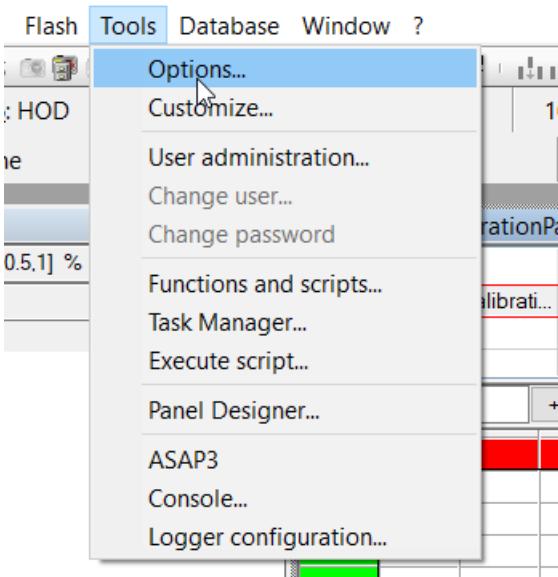
- Open a blank excel, then Ctrl+V to paste contents, then can get a faultlist

A	B	C	D	E	F	G
1		1	DEM_LOW_VOLTAGE_FAULT			
2		2	DEM_UNDER_VOLTAGE_FAULT			
3		3	DEM_OVER_VOLTAGE_FAULT			
4		4	DEM_HIGH_VOLTAGE_FAULT			
5		5	TORQUE_CHANNEL_1_FAULT			
6		6	TORQUE_CHANNEL_2_FAULT			
7		7	DEM_DRIVE_STAGE_TEMP_SENSOR_FAULT			
8		8	TORQUE_CHANNEL_3_FAULT			
9		9	DEM_FPU_TRAP_FAULT			
10		10	DEM_M1_MOTOR_CURRENT_IMPLAUSIBLE_FAULT			
11		11	DEM_BD_2_MULTIPLE_FET_FAILURE			
12		12	DEM_BD_2_BOTTOM_SCD_FAULT			
13		13	DEM_BD_2_BOTTOM_OCD_FAULT			
14		14	DEM_BD_1_TOP_SCD_FAULT			
15		15	DEM_BD_1_BOTTOM_SCD_FAULT			
16		16	DEM_M2_MOTOR_CURRENT_IMPLAUSIBLE_FAULT			
17		17	DEM_MOTOR_DBL_OPEN_PHASE_FAULT_BRIDGE_ONE			
18		18	DEM_M1_MOTOR_OPEN_PHASE_FAULT			
19		19	DEM_M2_MOTOR_OPEN_PHASE_FAULT			
20		20	DEM_MOTOR_DBL_OPEN_PHASE_FAULT_BRIDGE_TWO			
21		21	DEM_MOTOR_OPEN_PHASE1_FAULT_BRIDGE_ONE			
22		22	DEM_MOTOR_OPEN_PHASE1_FAULT_BRIDGE_TWO			
23		23	DEM_MOTOR_OPEN_PHASE2_FAULT_BRIDGE_ONE			
24		24	DEM_MOTOR_OPEN_PHASE2_FAULT_BRIDGE_TWO			
25		25	DEM_MOTOR_OPEN_PHASE3_FAULT_BRIDGE_ONE			
26		26	DEM_MOTOR_OPEN_PHASE3_FAULT_BRIDGE_TWO			
27		27	DEM_MOTOR_TORQUE_MONITOR_FAULT			
28		28	DEM_ZERO_PHASE_CURRENT_FAULT_BRIDGE_ONE			
29		29	DEM_ZERO_PHASE_CURRENT_FAULT_BRIDGE_TWO			
30		30	DEM_BD_1_MULTIPLE_FET_FAILURE			
31		31	DEM_BD_2_TOP_OCD_FAULT			
32		32	DEM_BD_2_FET_DIAG_INVALID			
33		33	DEM_BD_1_BOTTOM_OCD_FAULT			
34		34	DEM_BD_1_TOP_OCD_FAULT			
35		35	DEM_BD_1_FET_DIAG_INVALID			
36		36	DEM_BD1_CP2_OVERLOAD_FAULT			
37		37	DEM BD2 CB UNDER VOLTAGE FAULT			

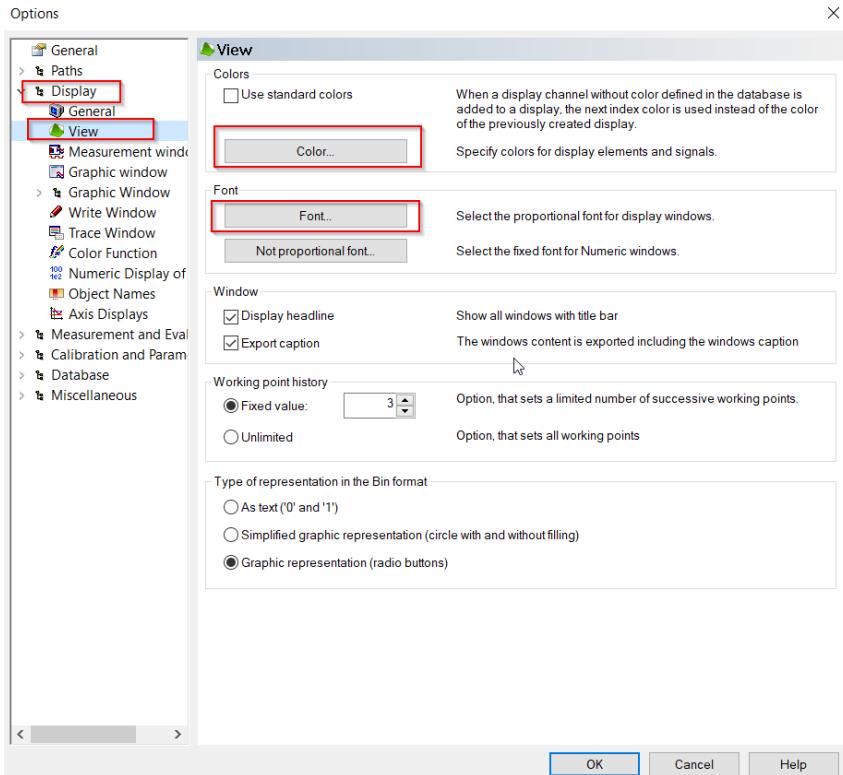
13 CANape how to set window background color, font size

- Open 'Option' manue

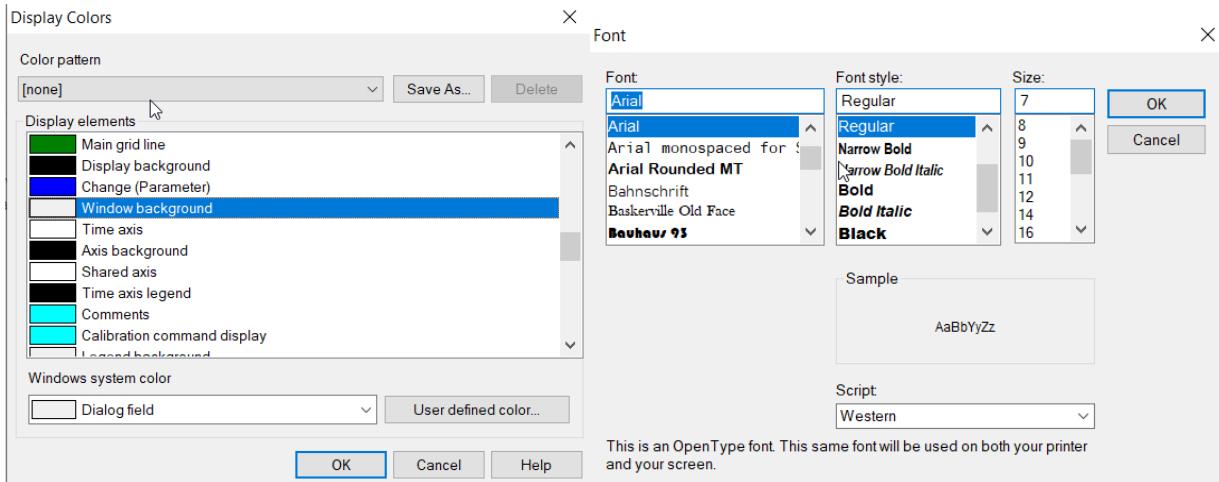
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- Set color and font

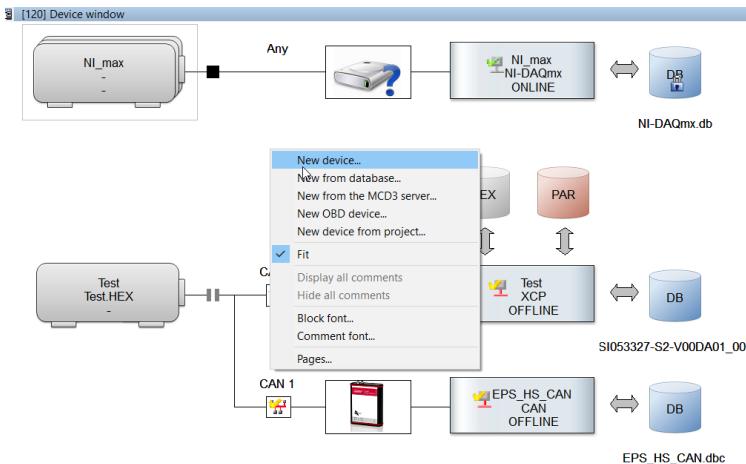


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14 How to create a diagnostic window in CANape

- New device



- Select diagnostic and input device name

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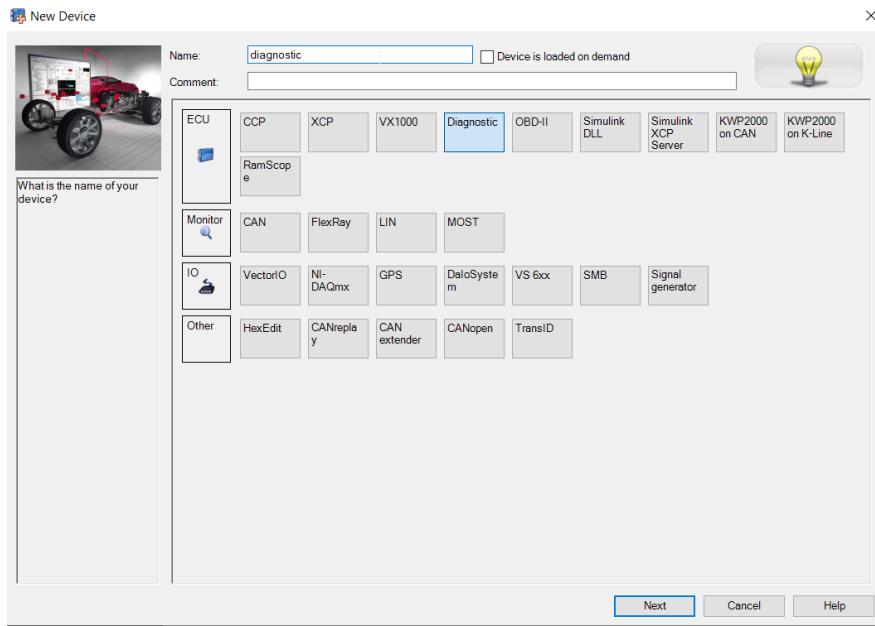
Date xx/xx/15



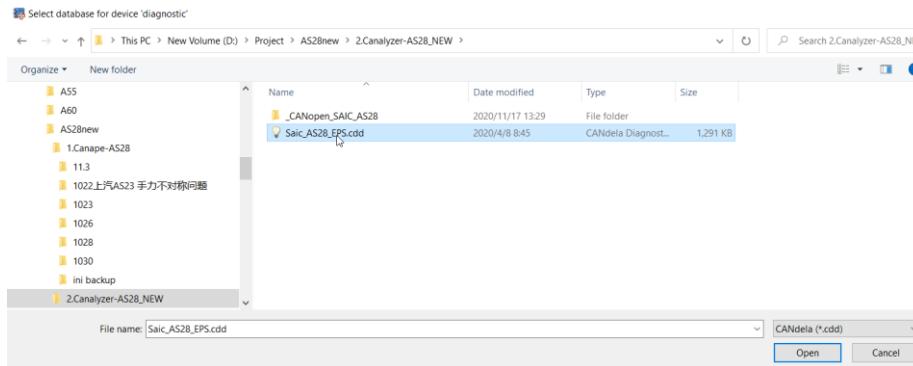
Title:

CANape Using Introduction

Page 47 of 59

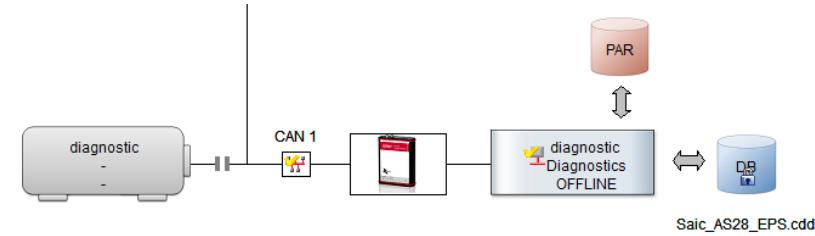
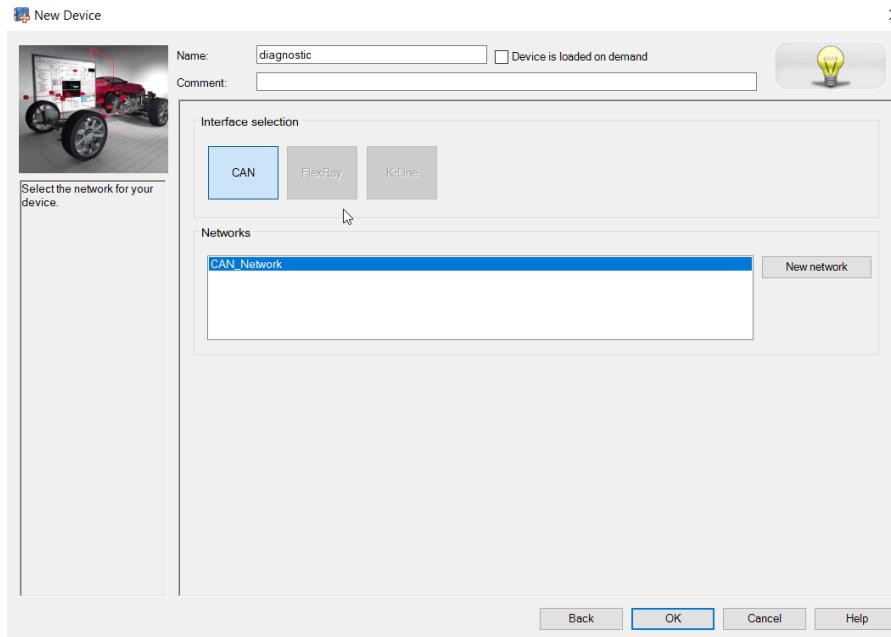


- Select correct CDD file

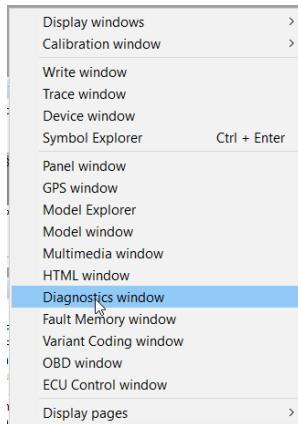


- Select CAN net and click ok

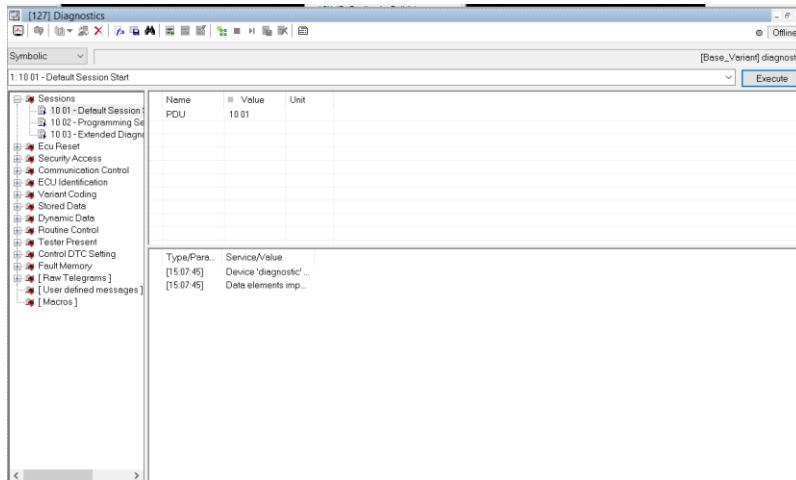
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- Right click blank area, select diagnostic window

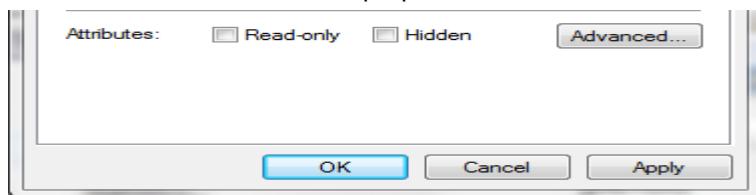


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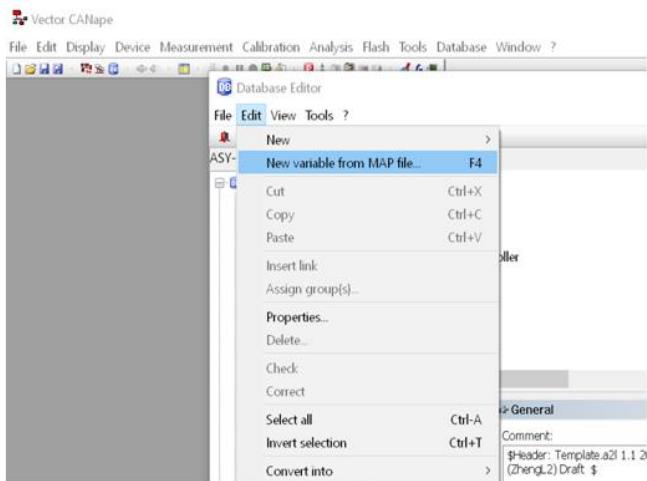


15 How to add a new parameter into a2l with MAP file

- First of all, make sure the properties of this a2l are not read only.

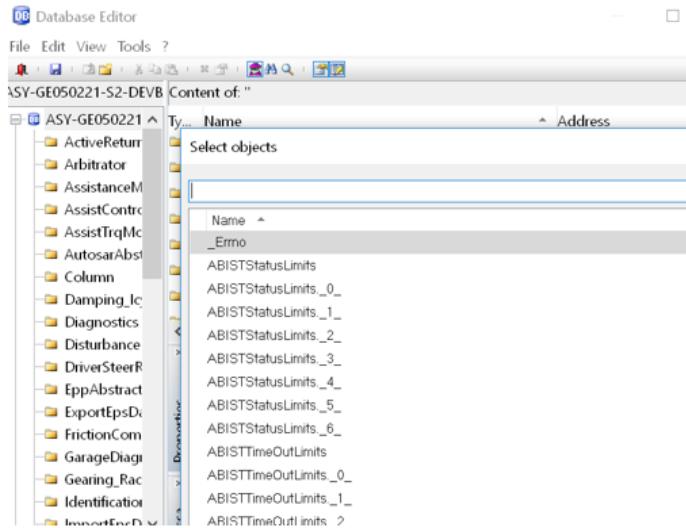


- Click Database. Click edit→New variable from MAP file.

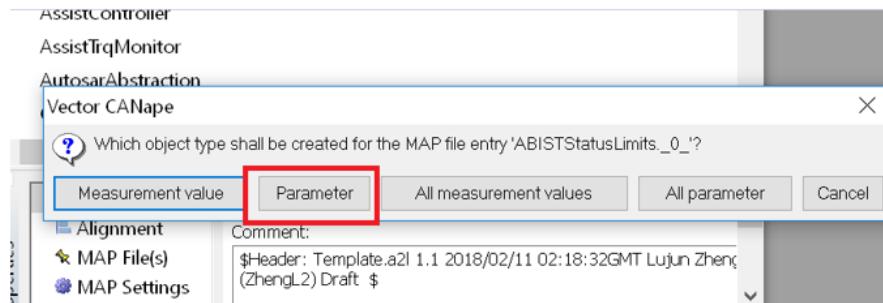


- Type in the parameter which you want to add.

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- Choose the type of this value.

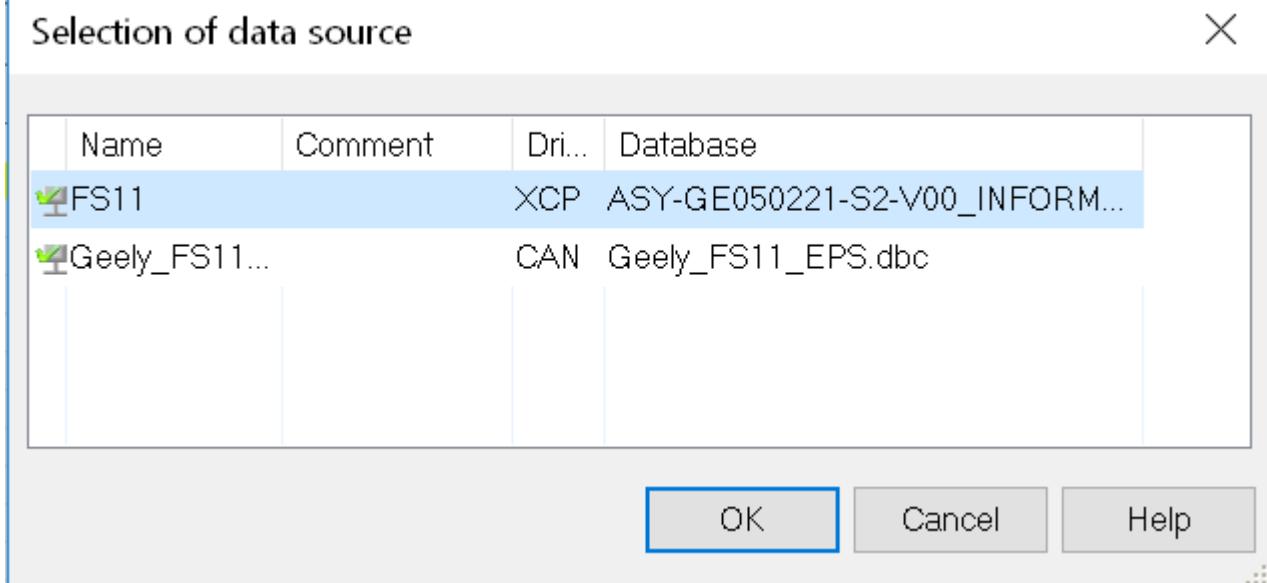


- After this value will add into a2l. Please save this a2l.

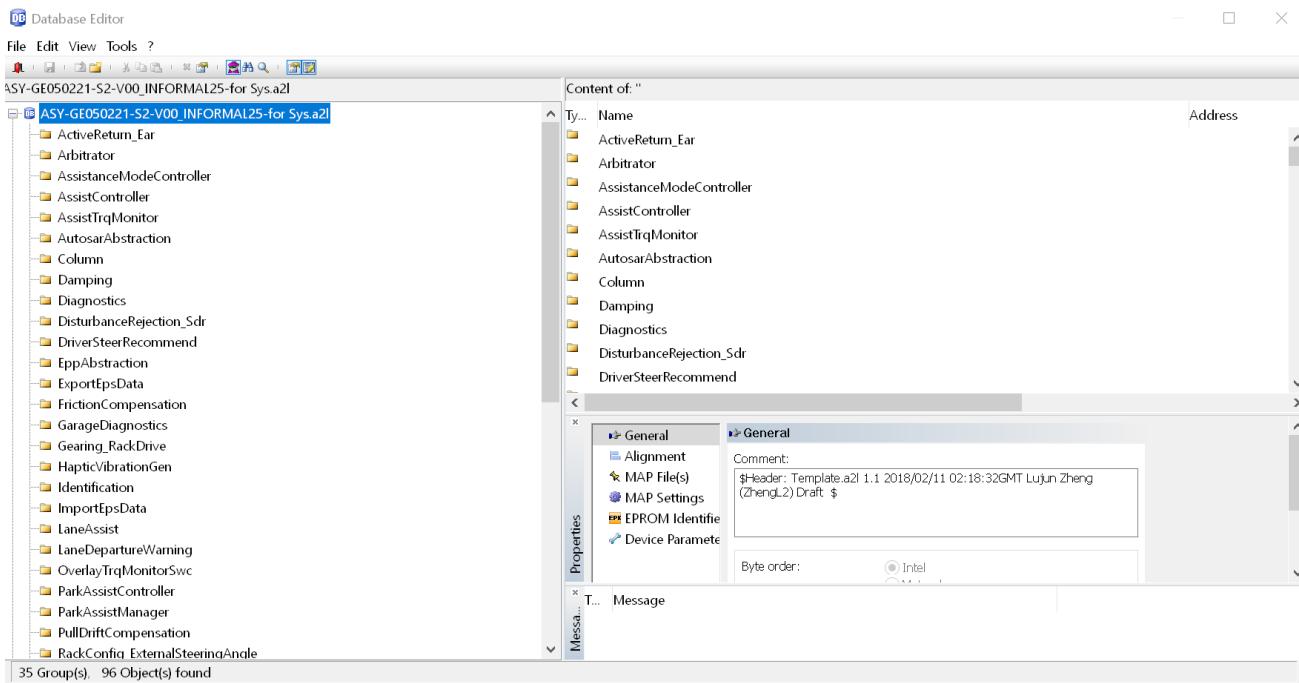
16 How to edit a parameter in a2l file

Click the icon , open the database, select device and click ok.

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- Select the database.



Click the icon , search the parameter you want to edit.

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Document No. **8078xxxx**Level **A00**Date **xx/xx/15**

Title:

CANape Using Introduction

Page 52 of 59

Double the parameter you want to edit.

Click "Physical Dispaly". Select "Linear" in conversion rule.

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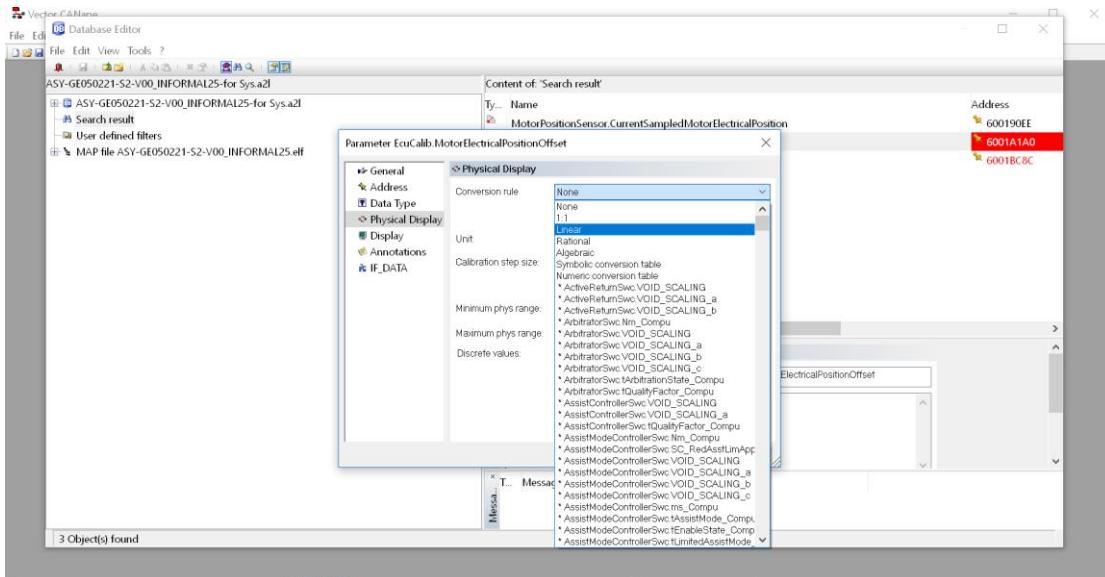
Level A00

Date xx/xx/15

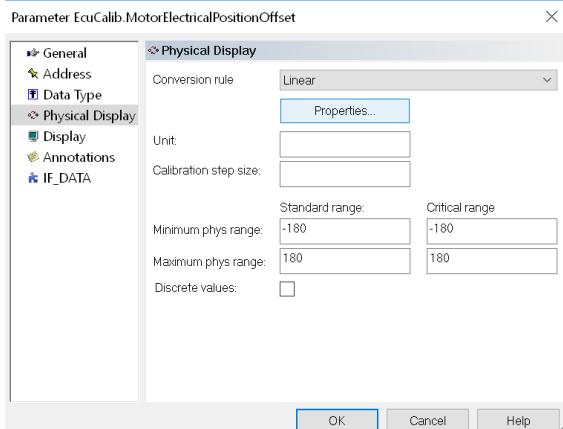
Title:

CANape Using Introduction

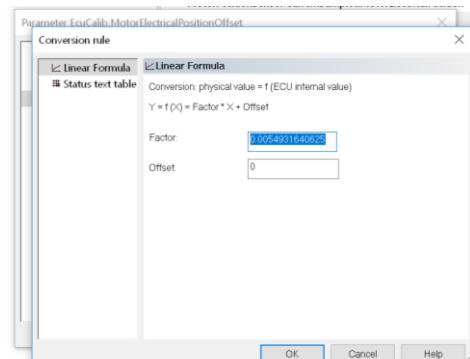
Page 53 of 59



Click "Properties..."

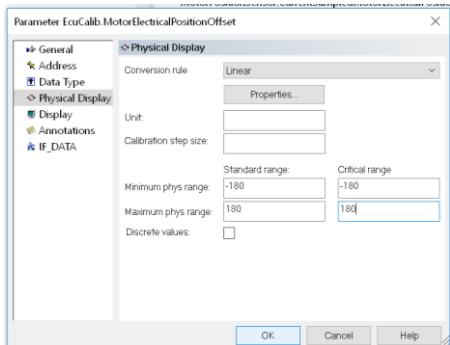


Input the factor and offset. And click "Ok"



Click "Ok" in below

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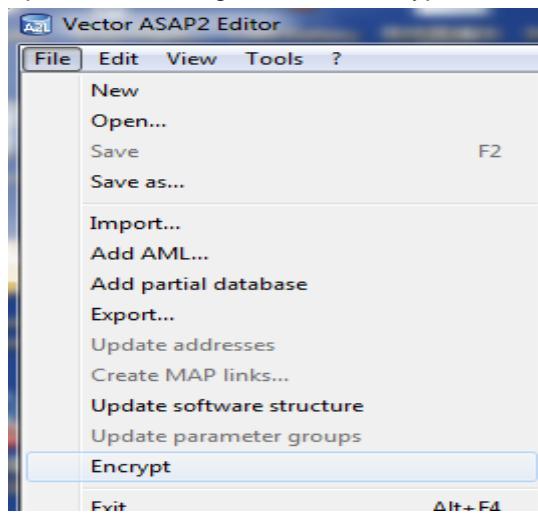


Save the a2l file.



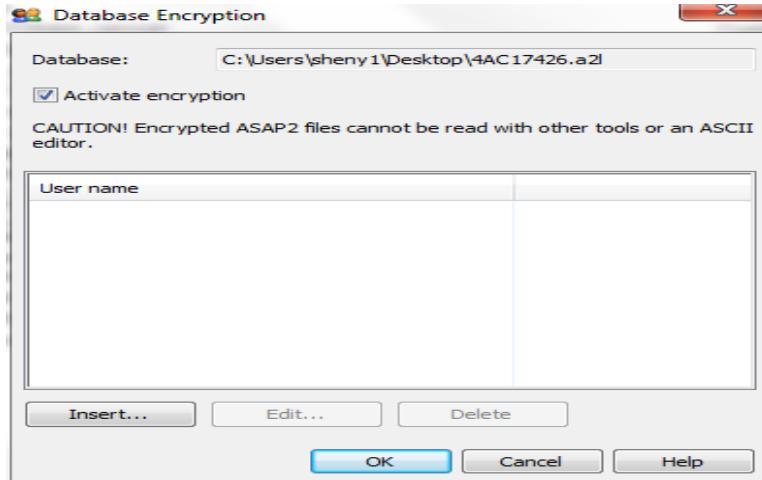
17 How to encrypt an a2l file

- Only CANape version higher than 6.5 has this function.
- Open the a2l file, go to File → Encrypt.



- Choose "Activate encryption".

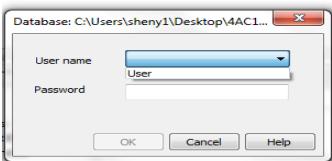
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- Click "Insert...". Type in User name, password and Confirm password. Then click "OK".



- Save and close the a2l file.
- Open the a2l again, only choose user and type in the password, then you can see the parameters in the a2l. Or no parameters will be displayed in the a2l.
- And when load this a2l into a project, it will ask for password first time. Or this a2l can't be loaded successfully.

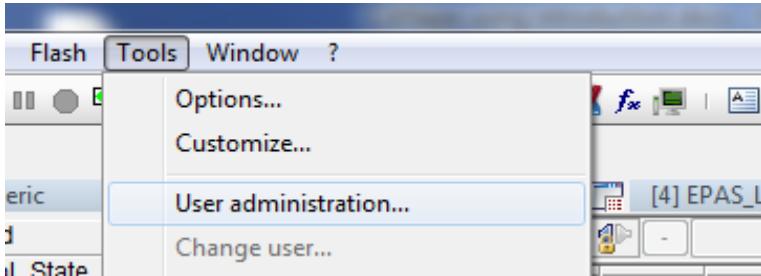


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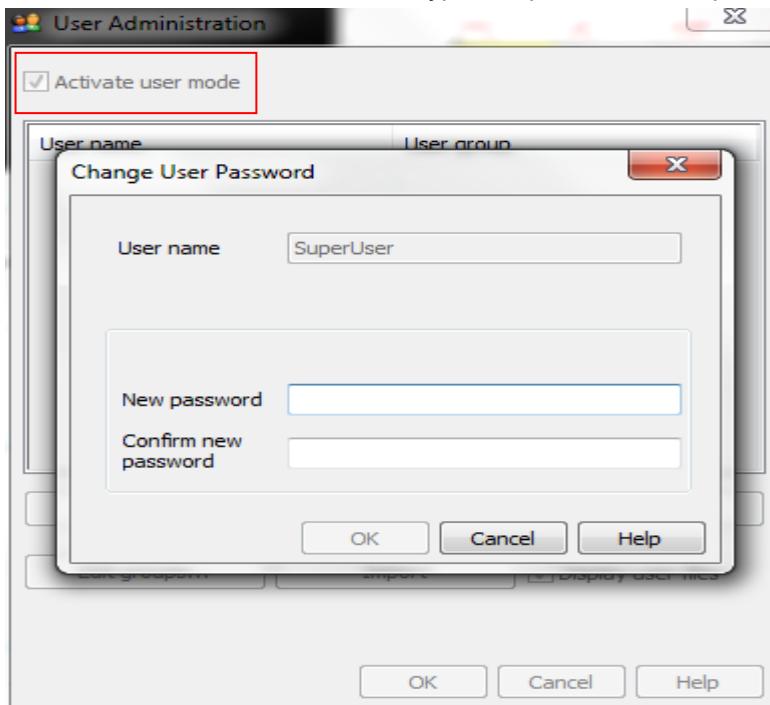


18 How to encrypt a configuration

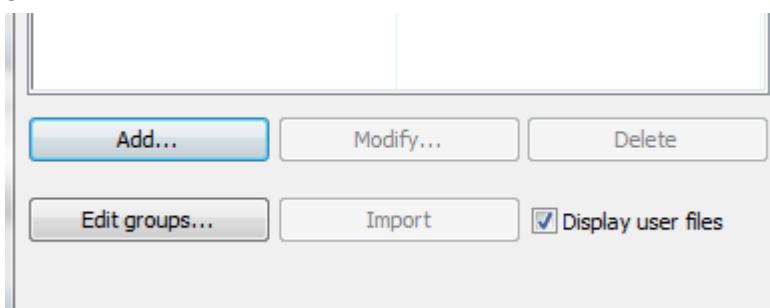
- Open a configuration, go to Tools → User administration.



- Choose "Activate user mode", then type in a password of SuperUser, then click "OK".



- Click "Add".



- Type a user name, then unselect password active.
- Click "OK".

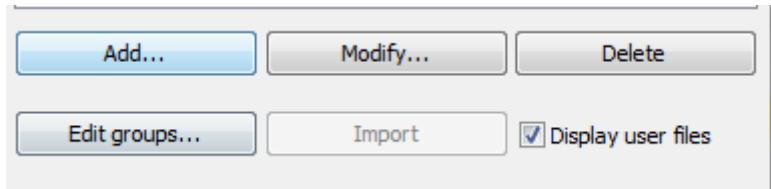
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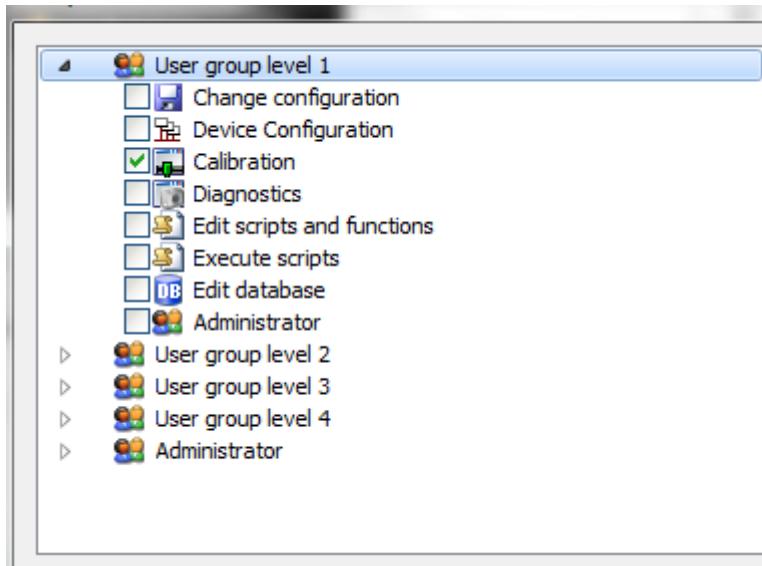
User Configuration

User name	User1
User group	User group level 1
<input type="checkbox"/> Password active	
New password	<input type="text"/>
Confirm new password	<input type="text"/>
<input type="button" value="OK"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>	

- Choose "Edit groups".

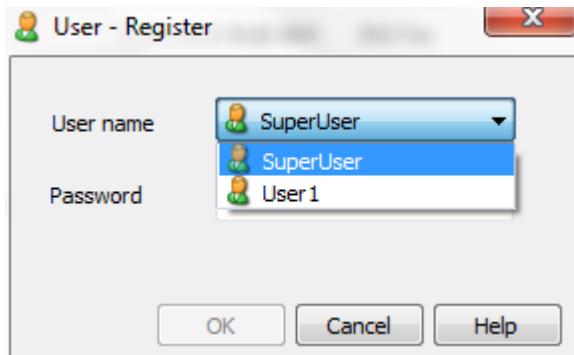


- Select the right which can be used in group1. Then click "OK".



- Save and close the configuration.
- Open the configuration again.

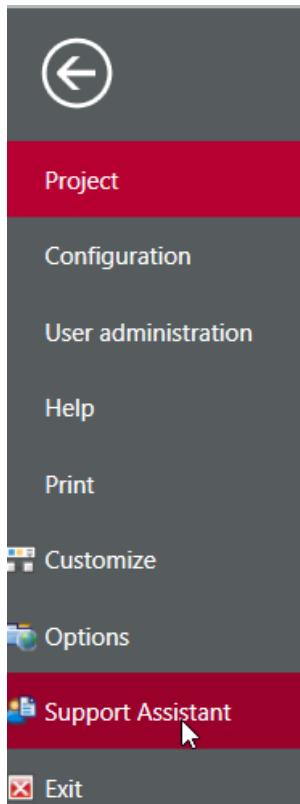
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- SuperUser need the password, User1 needn't.
- Choose User1.
- Now only function relative to Calibration can be used, other functions are forbidden.

19 How to get support for difficult problem

- Open 'Support Assistant' window



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Document No.

8078xxxx

ISSUE

Level A00

Date xx/xx/15



Title:

CANape Using Introduction

Page 59 of 59

- Add problem description, then click send, later, you will get support.

In order for our Support Team to optimally assist you in resolving your problem, additional information is needed. This includes specific system files and configuration files. The necessary files are sent compressed and password-protected to Vector Support. In order to check the compilation of files, you can also save the report (ZIP file) without sending it.

Use default password for the report (ZIP file): XYZ123_vector

General Information
 2021/3/22 11:03:53
 Vector CANape x64 Version 17.0.20.288
 Windows 10.0 (64 bit)
 Measurement, Calibration and Diagnostic Tool

Contact Data
 Please provide your contact information so that we may follow up with you:
 [Redacted text area]

Location
 Please select the Vector location that you wish to work with:

Problem Description
 Please provide a detailed description of the problem here:
 [Redacted text area]

File List
 The file list contains the files needed by Vector Support. Deselect the files that you do NOT want to send to us.
 Note: You can double-click the files to check their contents.

Add additional files (e.g., screen shots) to the report:

File	Modification Date	Size
Project files		
ASY-SID53327-52-V0...	2020/12/8 17:17:09	7233 KB
CANape.INI	2021/3/22 11:02:59	70 KB
Environment	2021/2/26 16:32:49	1 KB
Nlu.HEX	2021/2/22 11:02:58	1 KB
SAIC.cna	2021/2/26 16:34:53	1273 KB
Script_1.cns	2021/2/26 16:20:55	1 KB
Script_11.cns	2021/2/26 16:32:49	1 KB
SAIC.cna	2020/11/3 10:25:58	1045 KB
VECTOR.INI	2021/2/3 10:17:01	8 KB
Memory image		
CANapeFaultSmall.dmp	2021/3/22 11:03:54	2552 KB
CommandHistory.xml	2021/3/22 11:03:53	2 KB
Internal Files		
CustomerInfo.txt	2021/2/22 11:03:55	0 KB
GeneralInfo.ini	2021/3/22 11:03:55	1 KB
SupportAssistantDat...	2021/3/22 11:03:55	2 KB

Buttons: Send Report (highlighted), Save Report..., Open Report..., Error by calculation., Close, Help

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