Question:

What is the scope of LAB files in INCA and MDA?

What do use cases for LAB files look like?

Answer:

LAB files can be created in INCA* (V7.2) or in MDA (V7.2) ;**
LAB files can be used in INCA*.**

*	a) in the Calibration Data Manager b) in an INCA Experiment c) in the Database Manager
**	d) including all signals in MDA e) including all signals of a single display window
***	f) in the Calibration Data Manager g) in an INCA Experiment h) in the Database Manager

What is a LAB file?

A LAB file contains a list of variables. These lists can be used to select objects, filter objects or transfer a given selection (e.g. additional experiments, Calibration Scenario Configurations, etc.). The files end in .lab. There are three different formats of lab files: V1.0, V1.1, and V1.2 (for more details see chapter *Additional Information)* .

What is a Key Variable list?

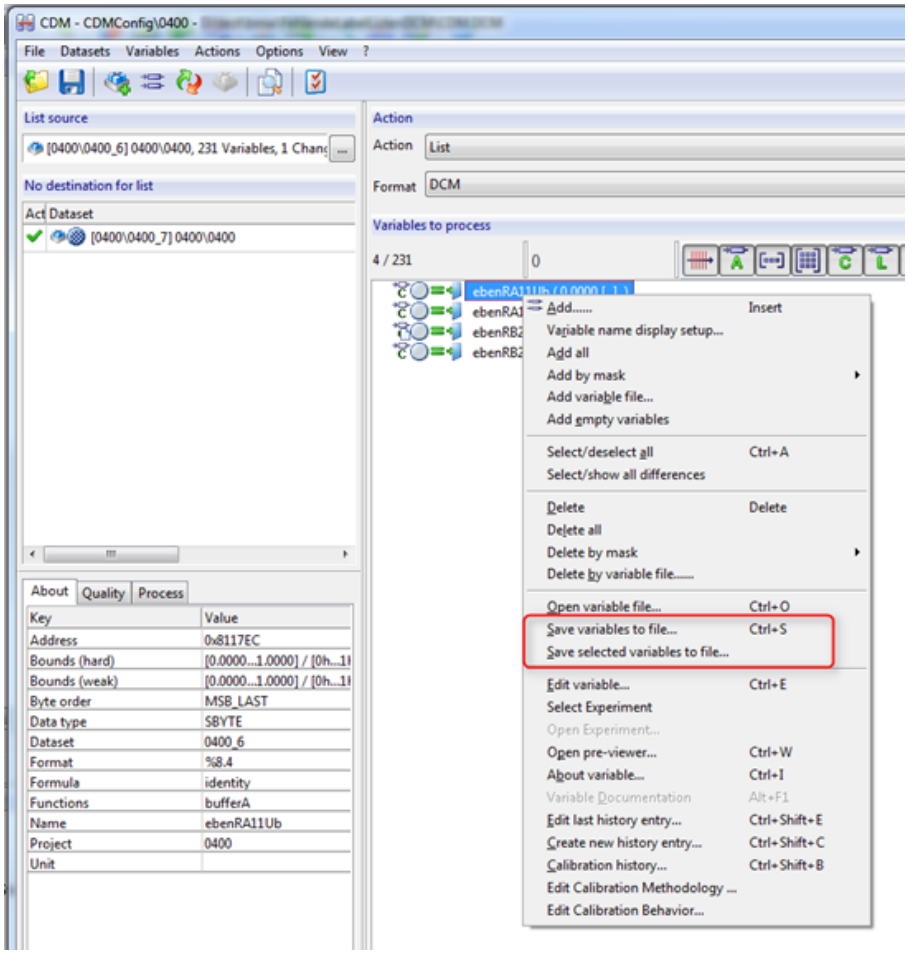
INCA supports a key variable list that contains all signals to be recorded. It allows to select /deselect signals by ASAP2 function/group, including the ranking order and raster information. The generation of key variable lists is based on an INCA project (ASAP2 file), it is exportable and editable by the user.

© ETAS GmbH 2017. All rights reserved, also regarding any disposal, exploitation, reproduction, editing, distribution, as well as in the event of applications for industrial property rights.

a) create LAB files in the Calibration Data Manager

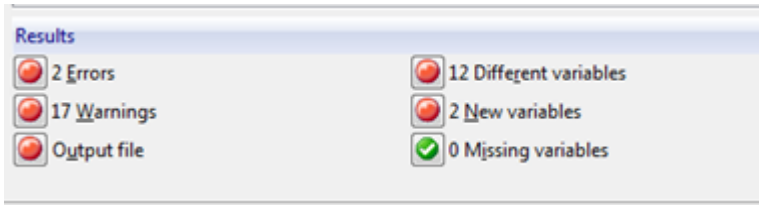
In the Calibration Data Manager LAB files can be generated as shown below:

In the selection list: ("Variables to process"):



After the execution of an action there will be a separate LAB (V1.0) file for all relevant „results“.

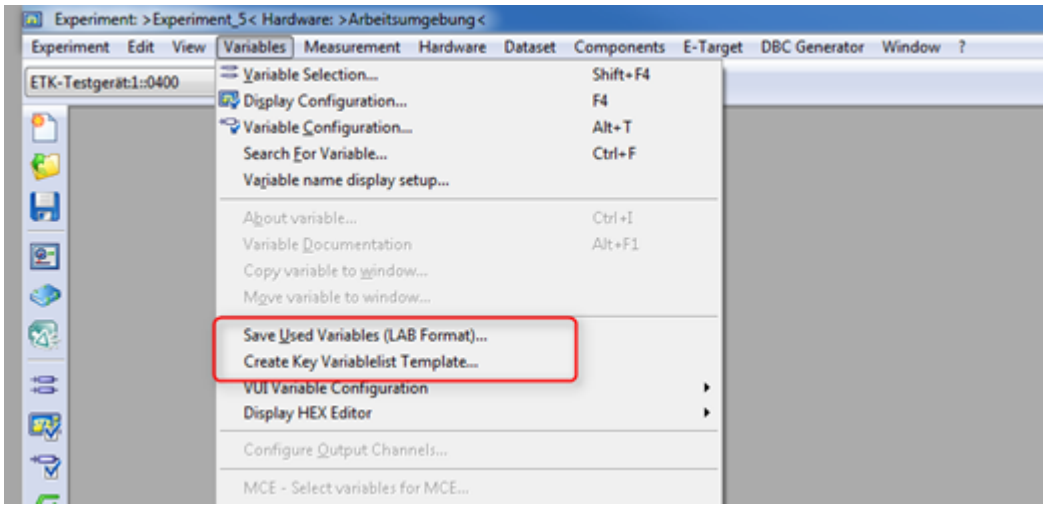
The resulting LAB files (V1.0) can be accessed comfortably by clicking the appropriate red dot.



b) create LAB files in the INCA Experiment

In the dropdown menu there are two options to create a single LAB file containing all measurement and calibration variables:
"Save Used Variables (LAB format)..." -> Version V1.0, or V1.1
"Create Key Variablelist Template.." -> Version V1.2

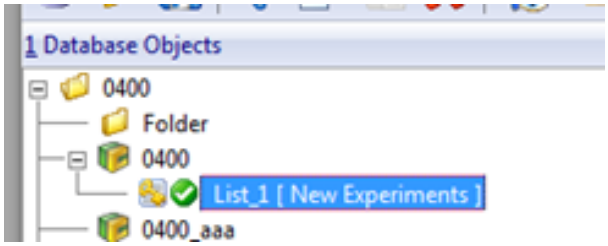
© ETAS GmbH 2017. All rights reserved, also regarding any disposal, exploitation, reproduction, editing, distribution, as well as in the event of applications for industrial property rights.



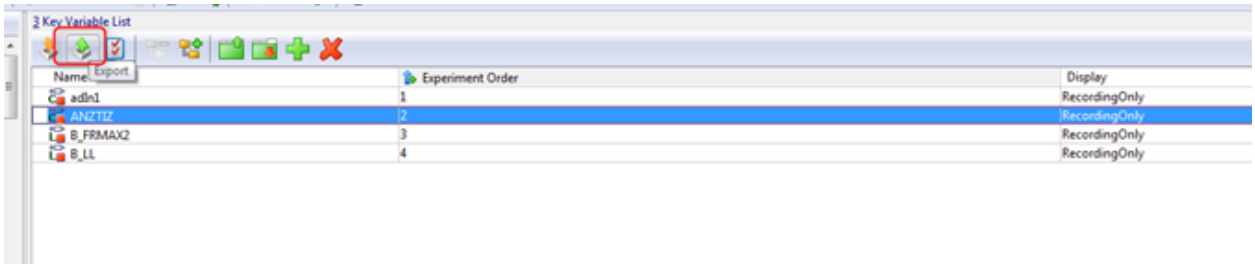
c) create LAB files in the Database Manager

An existing Key Variable List allows to create a LAB file as shown below:

- Select the Key Variable List



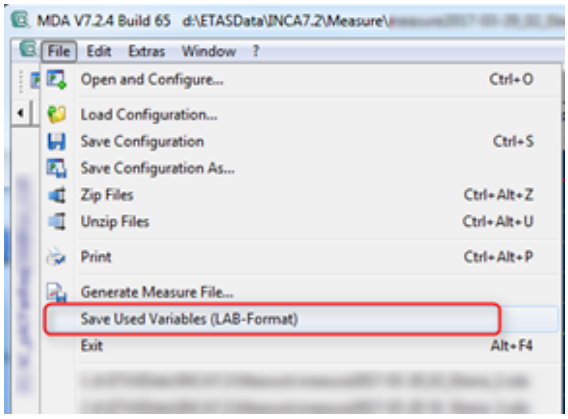
- press the "Export" button.



d) create LAB files in MDA including all signals within MDA

All measurement signals of a configuration can be saved to a LAB file including the raster information via the menu “File” -> „Save Used Variables (LAB-Format)”.

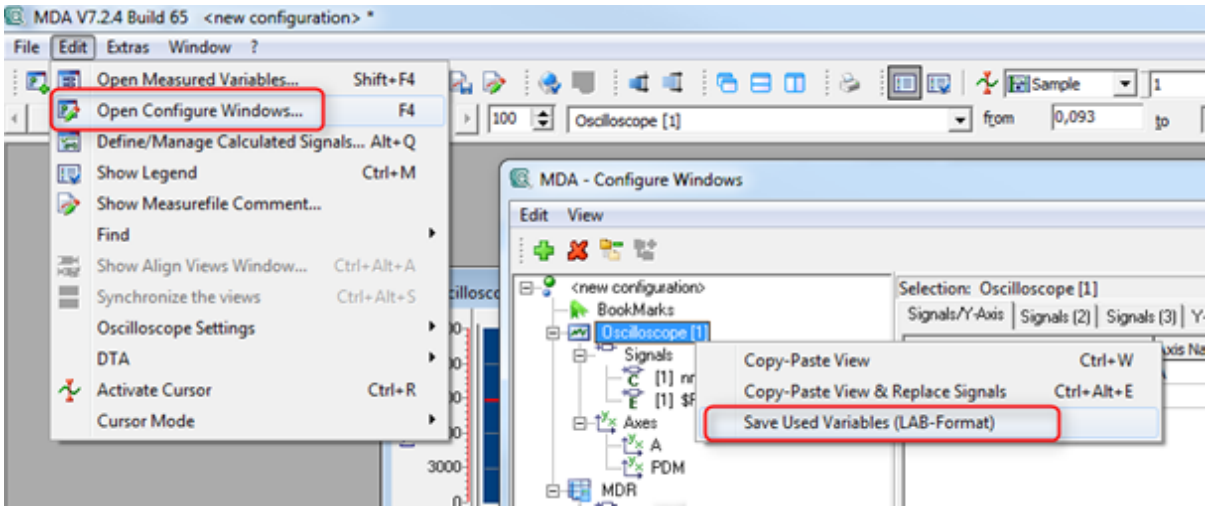
© ETAS GmbH 2017. All rights reserved, also regarding any disposal, exploitation, reproduction, editing, distribution, as well as in the event of applications for industrial property rights.



e) create LAB files in MDA including all signals of one single display window

The signals of an indivdual display window including the raster information can be saved in a LAB-File via the menu „Edit“ -> „Open Configure Windows...”.

Right click on the particular display window (the source window) you intend to create a LAB-File from and select „Save Used Variables (LAB-Format)”



f) use LAB files in the Calibration Data Manager

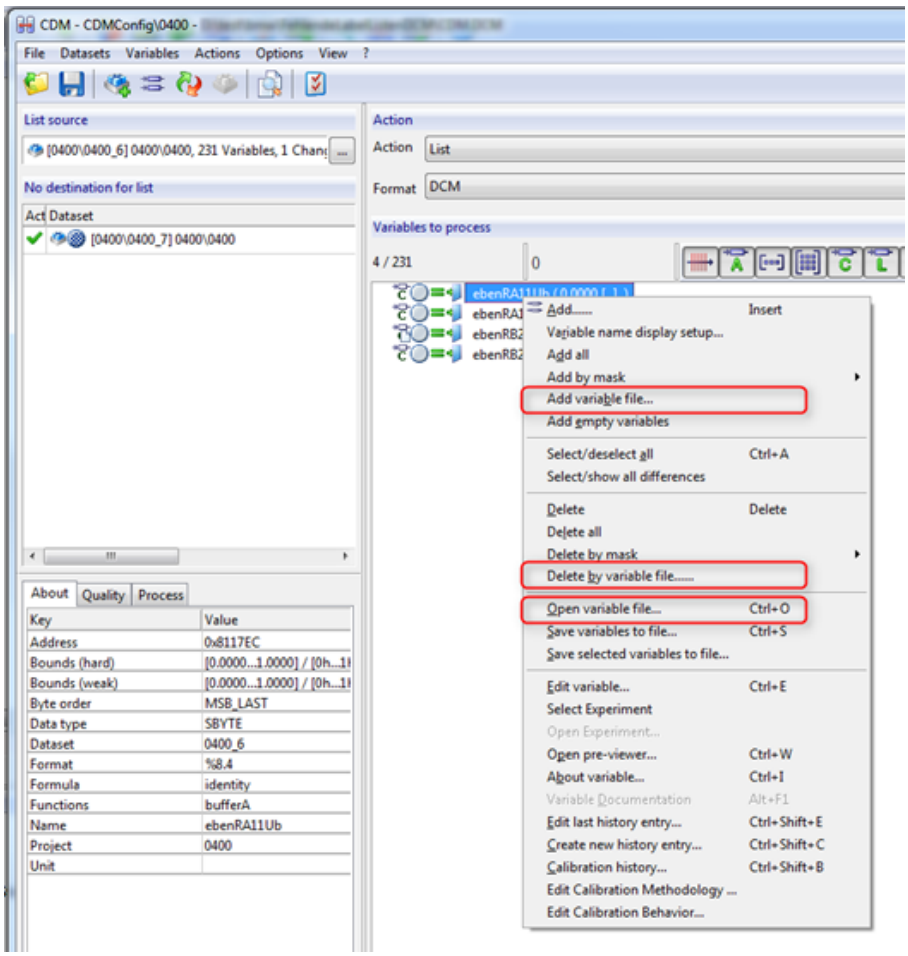
In the CDM section “Variables to process” LAB files can be introduced via context menu (right mouse click) by

- adding a set of variables from the LAB file to an existing variable selection: "Add variable file..."

- deleting variables defined in the LAB file: "Delete by variable file..."

- by selection of defined variables (the existing variable list will be removed): "open variable file..."

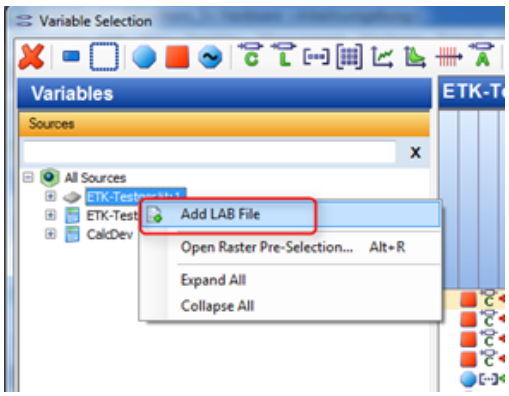
© ETAS GmbH 2017. All rights reserved, also regarding any disposal, exploitation, reproduction, editing, distribution, as well as in the event of applications for industrial property rights.



g) use Lab files in the Variable Selection Dialog of an INCA Experiment

A LAB file can be used as a filter in the Variable Selection Dialog (VSD).

Once a source device is highlighted the LAB file can be asigned via context menu: „Add LAB File“.

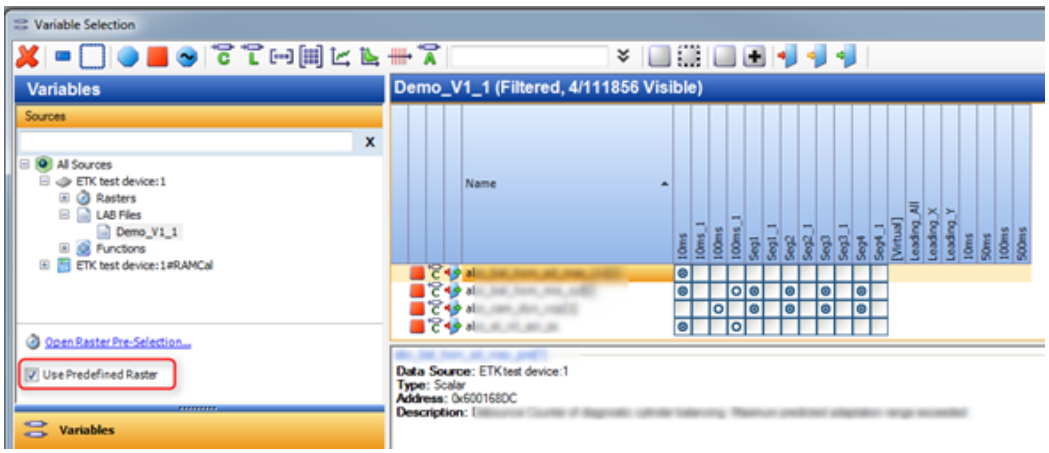


LAB file V1.1 supports raster information of the signals which is displayed in the Variable Selection Dialog.

If the option "Use Predefined Raster" is activated and a variable is selected the default raster (defined in the A2L file) will be used.

© ETAS GmbH 2017. All rights reserved, also regarding any disposal, exploitation, reproduction, editing, distribution, as well as in the event of applications for industrial property rights.

If the option "Use Predefined Raster" is inactive then the raster from the LAB file will be used.

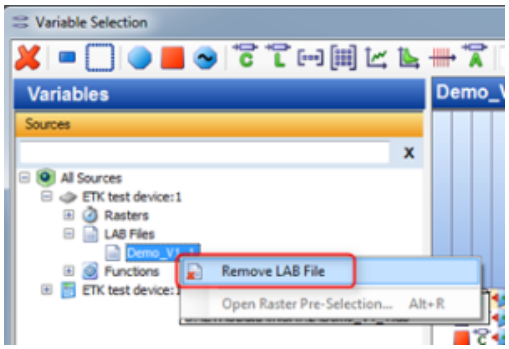


Predefined raster from A2L (if "Use Predfined Raster" is active).

Predefined Raster from Lab file

Removal of the LAB file from the Variable Selection Dialog:

Right mouse click: "Remove LAB file"

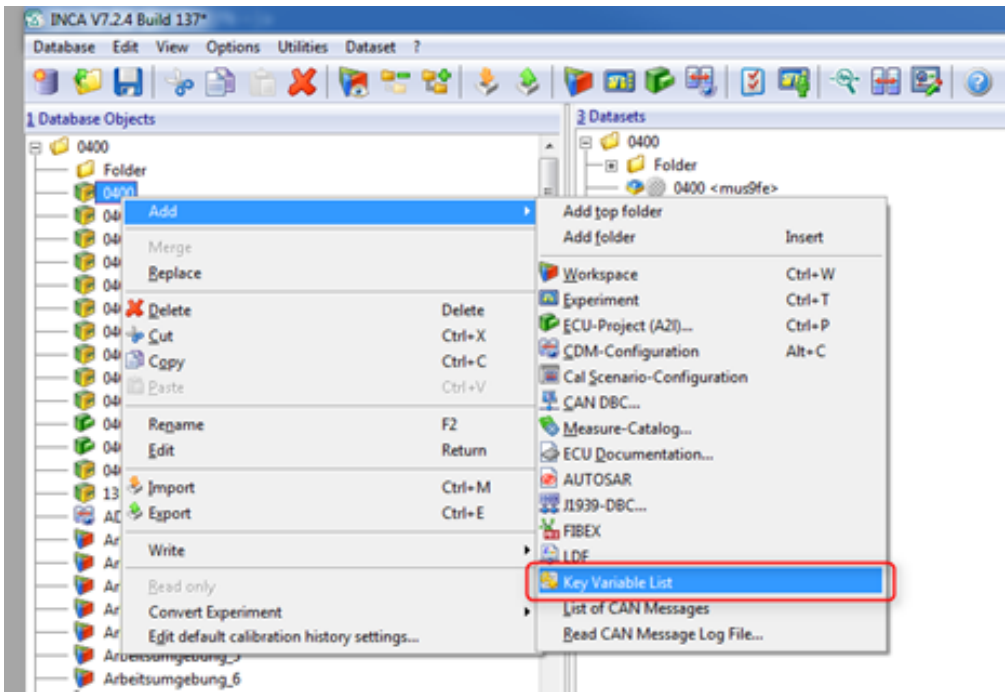


h) use LAB files in the Data Base Manager

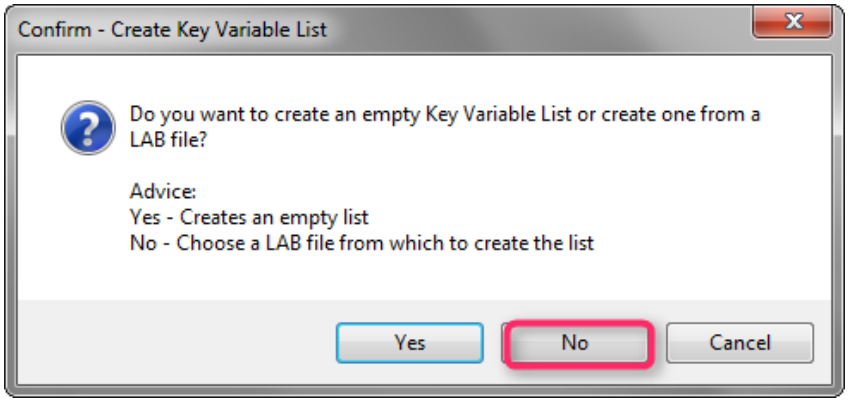
Label lists can be used by selecting the option "Key Variable List" of the context menu.

Once a project has been highlighted in the Database Manager either an existing or a new (empty) Key Variable List can be added via context menu:

© ETAS GmbH 2017. All rights reserved, also regarding any disposal, exploitation, reproduction, editing, distribution, as well as in the event of applications for industrial property rights.

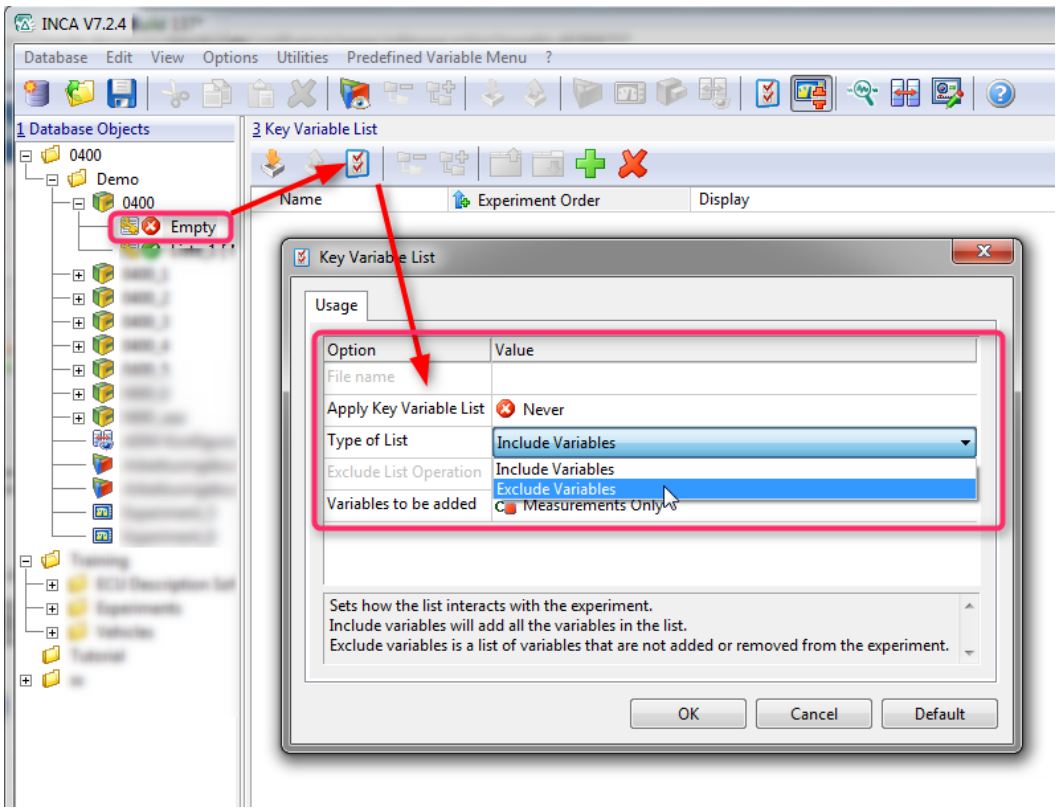


In order to add an existing LAB file click on "No" and select a LAB file in the corresponding dialog window.



In order to set up an empty LAB file click on "Yes" and define the use case via the button "Properties" .

© ETAS GmbH 2017. All rights reserved, also regarding any disposal, exploitation, reproduction, editing, distribution, as well as in the event of applications for industrial property rights.



Additional information:

Description of the LAB Format

Color code:

black:	V1.0
blue	V1.1
blue + red	V1.2

Set-up of Signals:

Name	;	Raster	;	Display status	;	Ranking Order in the Experiment	;	Comment
Signal1	;	Zyl1&Zyl2&Zyl3&Zyl4	;	Display	;	1	;	Comment

© ETAS GmbH 2017. All rights reserved, also regarding any disposal, exploitation, reproduction, editing, distribution, as well as in the event of applications for industrial property rights.

Example:

[SETTINGS]

Version;V1.1 (V1.2)

MultiRasterSeparator;&

[RAMCELL]

Signal1; Zyl1&Zyl2&Zyl3&Zyl4 ; Display ; 1 ;Comment

Signal2; 100ms ; Display ; 2

Signal3; 1000ms ; RecordingOnly ; 3

Signal4; 100ms ; Display ; 4

Signal5; 10ms ; Display ; 5

Signal6;; ;; Comment

[Label]

Map1; singleShot ; Display ; 6

Curve1; singleShot ; Display ; 7

Curve2; singleShotOnly ; RecordingOnly ; 8

[Function]

Func_ABC;;1

Func_XYZ;;2

[Groups]

See also:

- INCA 7.2 Online-Help (F1) -> Full Help -> search for: "lab"
- MDA 7.2 Online-Help (F1) -> search for: "lab"
- C:\ETAS\MDA7.2\Manuals\MDA_Manual_R7.2_EN.pdf

In case of further questions:

You will find further FAQ here: www.etas.com/en/faq
Please feel free to contact our Support Center, if you have further questions.
Here you can find all information: http://www.etas.com/en/hotlines.php

© ETAS GmbH 2017. All rights reserved, also regarding any disposal, exploitation, reproduction, editing, distribution, as well as in the event of applications for industrial property rights.

This information (here referred to as „FAQ“) is provided without any (express or implied) warranty, guarantee or commitment regarding completeness or accuracy. Except in cases of willful damage, ETAS shall not be liable for losses and damages which may occur or result from the use of this information (including indirect, special or consequential damages).

© ETAS GmbH 2017. All rights reserved, also regarding any disposal, exploitation, reproduction, editing, distribution, as well as in the event of applications for industrial property rights.