

APIS User Meeting 2016

Tips and tricks provided by the APIS Support team



Global actions - Motivation

There are actions that exist only once, but at the same time could detect and prevent multiple failures. These actions can be defined as „global actions“ within the IQ Software.

Possible operations:

- Creating global actions
- Deleting global actions
- Converting to non-global actions

Example:

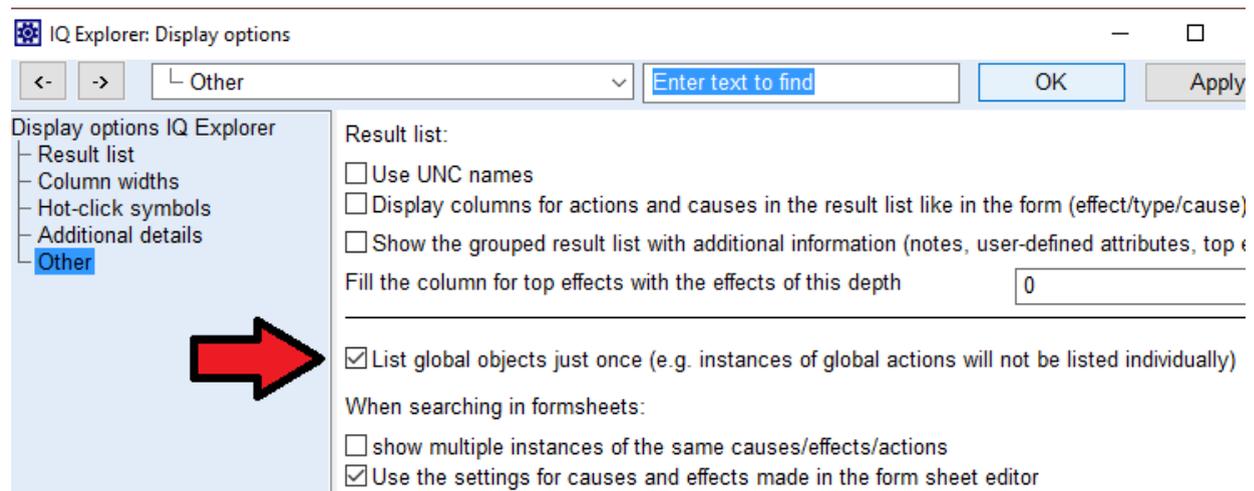
Outgoing goods test

 24 Hour endurance test {1}



Global actions

Instances of global actions are generally listed just once in each fme file.
This is an optional setting in the Display options of the IQ Explorer.



Deadline:

The deadline of a global action is always the same. Variant-specific deadlines are possible.

Responsible:

The responsible of a global action is always the same. Variant-specific responsables are possible



Global actions - non-global properties

Certain properties of global actions are not global.

Most of these properties are either notes or user-defined attributes.

Problem:

How can I assign non-global properties to all instances of a global action?

Answer:

IQ Explorer:

Search for all instances of actions → Select all (ctrl + left mouse click) →
Right-mouse click → Properties → e.g. Notes



Global actions - non-global properties

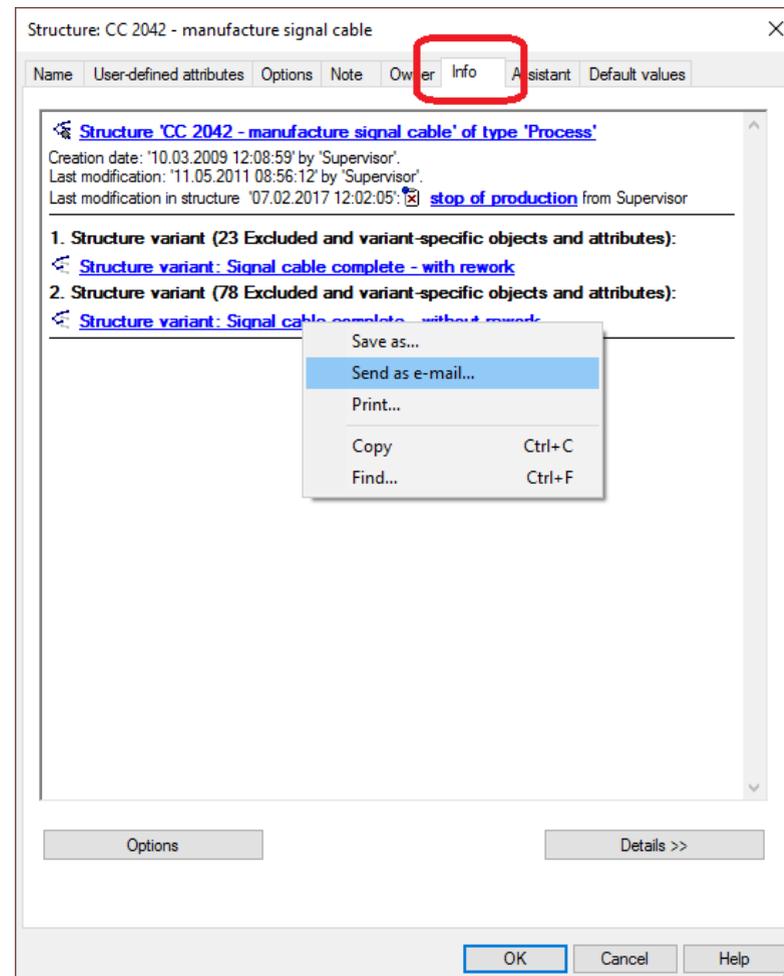
The screenshot displays the APIS software interface. On the left, the 'IQ Explorer' shows a search for 'stop of production' in the current IQ document. The search results list several instances of 'stop of production' with associated icons. In the center, a dialog box titled '(8 IQ objects)' is open, showing the 'Note' tab. The 'Category' is set to 'System', and the 'Notes (English)' field contains the text: 'Inform shift manager immediately of any stops in production'. The dialog box has tabs for 'Rating', 'Attributes', 'User-defined attributes', 'Functional Safety', 'Responsible', and 'Note'. At the bottom of the dialog are 'OK', 'Cancel', and 'Help' buttons. On the right, a search results table is partially visible, showing columns for 'element' and 'Function/Charac'.

element	Function/Charac
er cable s...	pull-off stre
er cable s...	volume res
ective sol...	volume res
are workp...	type of cat
able into ...	pull-off stre
er shieldin...	pull-off stre
are workp...	type of plug
ective sol...	pull-off stre



Infobox

- Open a Management dialog (e.g. Project Management, FMEA Forms Management)
- Select a structure and then go to „Properties“ and select e.g.„Info“ tab.
- Right-click functions:
Print, send as email





User-defined view -- Causes

Selecting multiple cause levels is now possible: Display options → Options II → Causes

The screenshot shows the 'User-defined view: User-defined view' table with the following data:

Project	Structure	System element	Function	Characteristic	Failure	Revision state
Cruise Control Unit CC 2042	4 CC 2042 - manu- facture signal cable	Operator	appliance lock is fully closed {1}		appliance lock is not closed properly {1}	Initial state
		Appliance	holds plug body without damaging it {1}		4.2.2.a.1 appliance lock damages plug {1}	Initial state

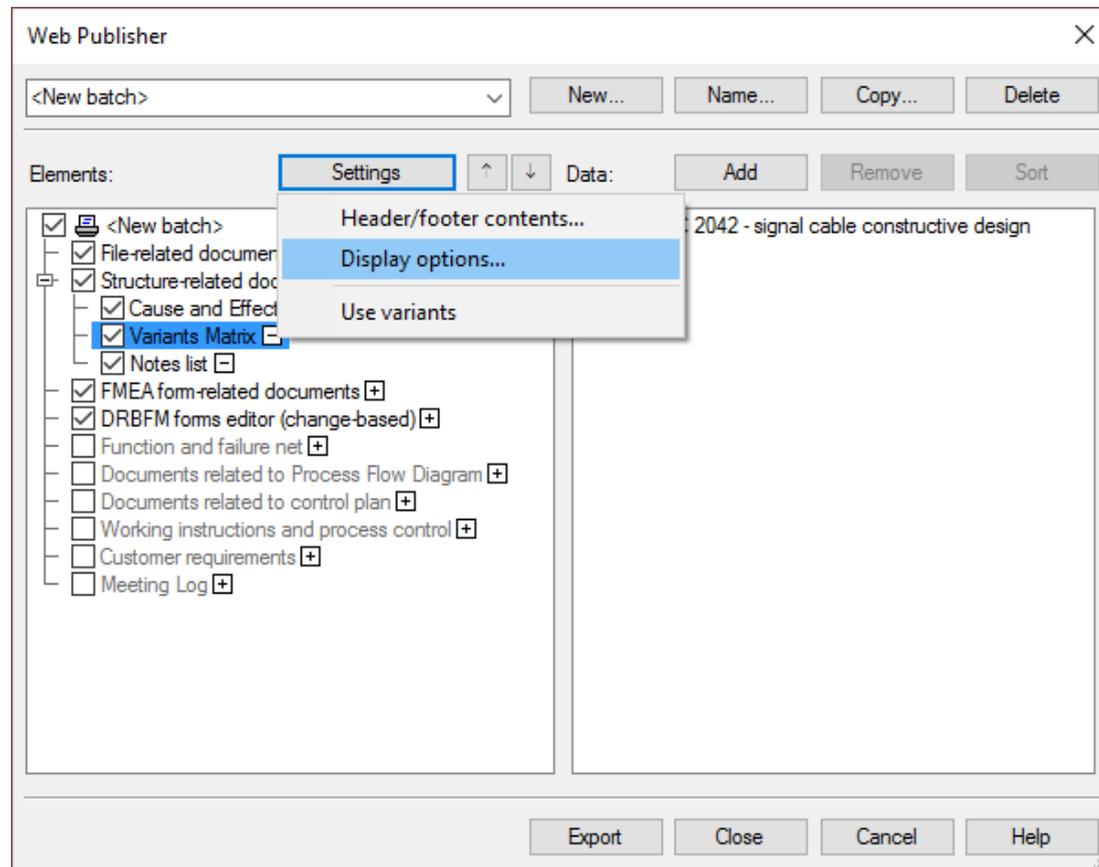
The 'User-defined view: Display options' dialog box is open, showing the 'Options II' view. The 'Causes' section is highlighted with a red box and contains the following options:

- All
- Direct causes only
- Root causes only
- Direct causes and root causes



Presentation print / Webpublisher- Separate Display options

Presentation print and Webpublisher have their own Display options. These settings are saved when performing „print batch“ and are independent of the Display options in the editor you are working in.

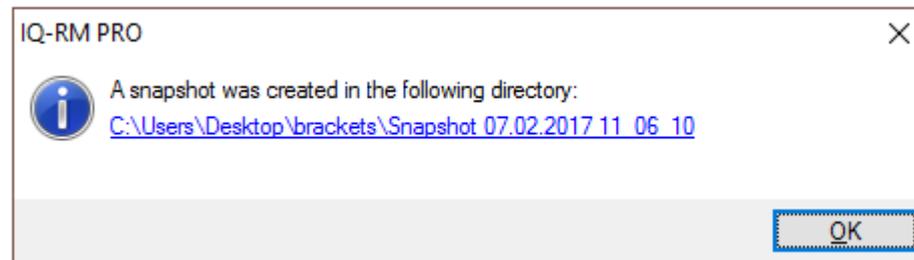




Create Snapshot

The „Create snapshot“ function in the „Help“ menu can be very useful for diagnostic purposes.

A new folder is created, whereby a copy of the fme file and the configuration file is also saved with the screenshot.



Name	Änderungsdatum	Typ	Größe
apis-iq65.cfg	07.02.2017 11:06	CFG-Datei	916 KB
EXAMPLE.fme	07.02.2017 11:06	IQ-Document	1.534 KB
Personal Desktop.png	07.02.2017 11:06	PNG-Datei	93 KB



Add new system elements from the Structure Editor into the FMEA Form

Select all system elements on the same level → Right-click: „-> FMEA Forms Editor“ → Select appropriate answer.

The screenshot shows the 'Structure Editor: Manufacture signal cable [Process]' window. The tree view on the left shows the following elements under 'Manufacture signal cable':

- Prepare workplace
- Insert plug into soldering appliance
- Solder cable strands on plug pins (manually)
- Solder shielding on plug housing (one sided; manually)
- Put cable into strain relief
- Test cable using test appliance

Each element has associated resources listed to its right:

- Prepare workplace: Operator
- Insert plug into soldering appliance: Operator, Appliance
- Solder cable strands on plug pins (manually): Setter, Operator, soldering iron
- Solder shielding on plug housing (one sided; manually): Operator, Setter, soldering iron

The 'Please confirm' dialog box contains the following text:

Not all the selected elements are included in the FMEA fom.
Select
'Yes' - to include the selected elements in the current FMEA fom
'No' - to create a new FMEA fom including all selected elements
'Cancel' - to cancel the procedure.

Buttons: Yes, No, Cancel