

A close-up of a lemon slice with a network of yellow lines and dots overlaid on its surface, extending into the background.

**Digital International APIS User Conference 2021**

**APIS**  
Informationstechnologien GmbH

# **Tips and tricks by the APIS Support team**

**Alexander Weiß, APIS IT GmbH**

# Fmea in home office

## Software installation:

Local installation of the IQ-Software (also NLX-Client)

or

remote desktop connection to computer at company workstation

## File:

Use local copy of fme file

# Clones and interfaces before conversion

IQ-RM PRO



X:\Alex\Benutzertreffen 2021\fme\OpenCloneV65.fme:

Clone/interface files cannot be converted.

If you do NOT have access to the previous version of the IQ-Software, please contact our support.

Otherwise, we recommend consolidating all clones/interfaces in the previous version of the IQ-Software. Then convert the resulting file.

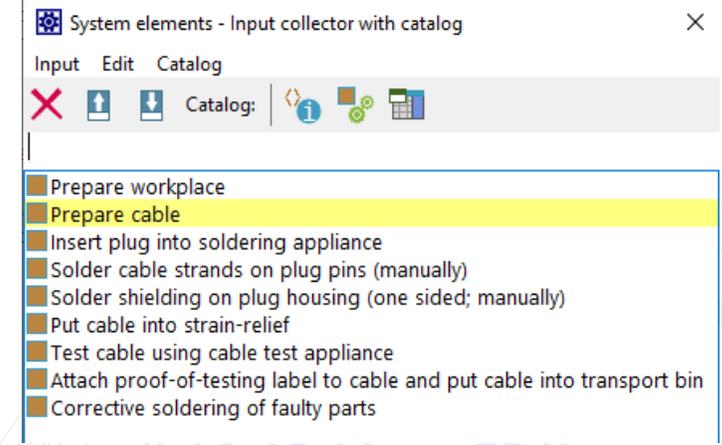
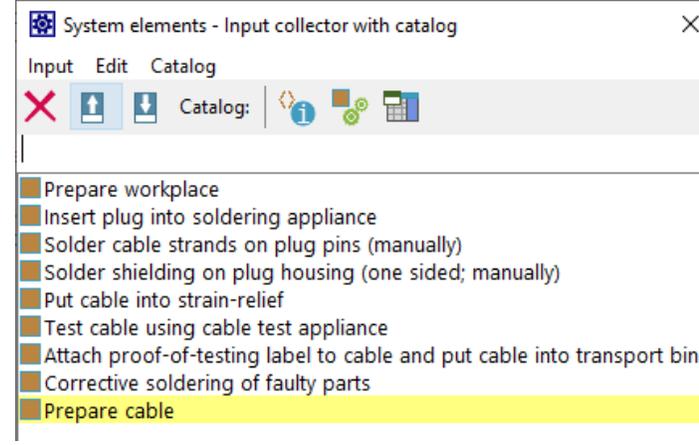
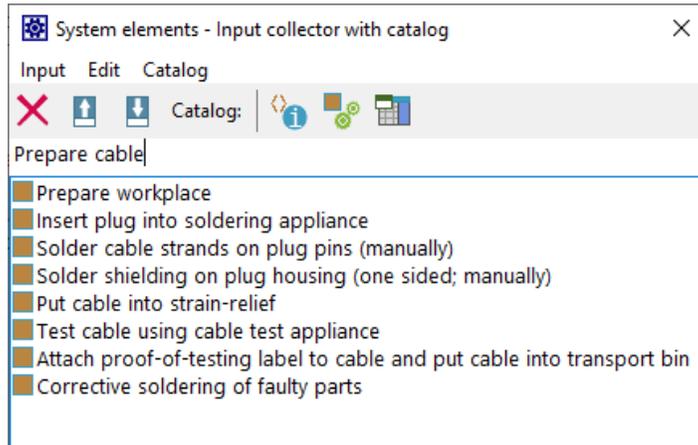
If this is not possible or what you want, there is the following alternative (to perform in the previous version of the IQ-Software):  
Close/Delete all open clones/interfaces in the administration (menu Consolidation | Clone/Interface management).

OK

If possible, close all open clones/interfaces **before** file conversion!

# Data collection and rearrangement in the input collector

The input collector can also be used to rearrange objects after the data has been entered



# Copy from multiselection to multiselection

A drag and drop copy between 2 workspaces is possible with multiselection for destination and source.

# Statistics: Analysis of forms vs analysis of structures

## Analysis of forms:

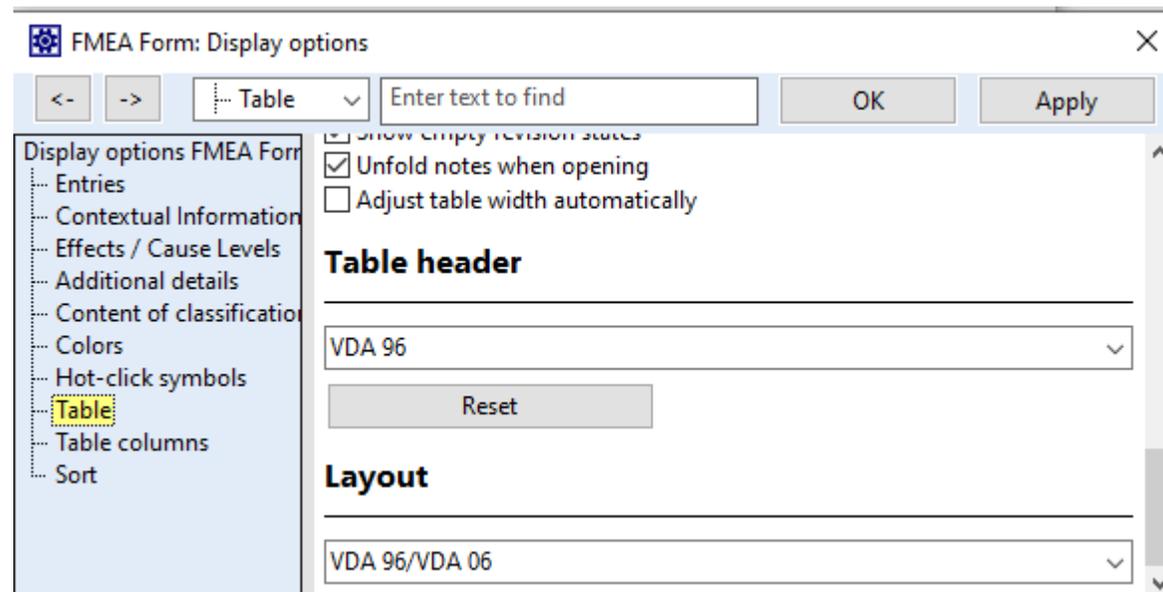
- Form content only
- Display option for causes is taken into account
- Any combination of failure mode - cause will be evaluated

## Analysis of structures:

- Content of structure/variant
- Multiple linked cause counts only single (with maximum severity rating)

# Form: Selection of layout and table header

- Consistent setting in menu „Display options | Table“
- Same operating concept for Control-Plan



# AP in practice

To display the action priority AP you need:

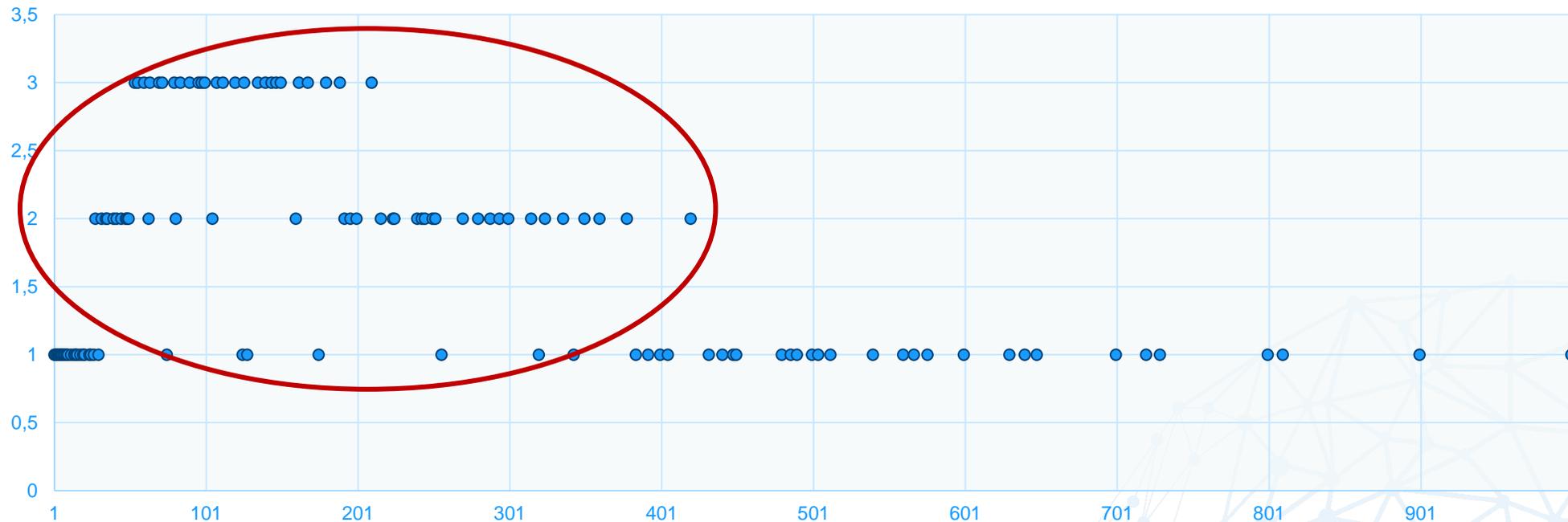
- AP Catalogs
- activated AP columns in the form

**AP Catalogs** are available in the Data Manager („Administration | AP Catalogs“). If the catalogs are missing, they can be copied to the fme file using „Tools | Read template | AP Catalogs“.

The **AP column** can also be activated for older form layouts in the display options under „Table | Miscellaneous | Show column for action priority (AP)“.

# AP in practice: AP vs. RPN

Number of different AP for each RPN



# AP in practice: AP vs RPN

Intervals with unambiguous assignment RPN  $\rightarrow$  AP:

$$1 \leq \text{RPN} \leq 27 \text{ and } 432 \leq \text{RPN} \leq 1000$$

Interval with multiple assignment:

$$28 \leq \text{RPN} \leq 420$$

For causes f1 and f2 with RPNs in this interval we observe:

$$\text{RPN}(f1) \leq \text{RPN}(f2) \not\Rightarrow \text{AP}(f1) \leq \text{AP}(f2)$$

**Sorting by RPN and AP leads to different results!**

# AP – Management Report

Available for customers with maintenance contract as component, e.g.:

The screenshot shows a software interface with a toolbar at the top and a main content area. The main content area is divided into two parts: a table on the left and a sidebar on the right.

The table is titled "AP-Report Structure actual" and has a yellow header. Below the header, there is a "Data basis:" section with a dropdown menu set to "1 Structure". The table has four columns: "Bmax", "AP H", "AP M", and "AP L". The rows are labeled "B=10" through "B=1". The values in the "AP H" column are highlighted in red, "AP M" in yellow, and "AP L" in green. The values are underlined.

The sidebar on the right is titled "AP actual (2021.08.11 13:34:16) - 1 Structure" and contains a tree view with a "Components" section.

AP-Report Structure actual			
Data basis:	1 Structure		
Bmax	AP H	AP M	AP L
B=10	<u>76.</u>	<u>6.</u>	<u>18.</u>
B=9	<u>76.</u>	<u>6.</u>	<u>18.</u>
B=8	<u>56.</u>	<u>26.</u>	<u>18.</u>
B=7	<u>56.</u>	<u>26.</u>	<u>18.</u>
B=6	<u>18.</u>	<u>38.</u>	<u>44.</u>
B=5	<u>18.</u>	<u>38.</u>	<u>44.</u>
B=4	<u>18.</u>	<u>38.</u>	<u>44.</u>
B=3	<u>0.</u>	<u>18.</u>	<u>82.</u>
B=2	<u>0.</u>	<u>18.</u>	<u>82.</u>
B=1	<u>0.</u>	<u>0.</u>	<u>100.</u>

**You have got problems?**

**We can solve them!**

**support@apis.de**