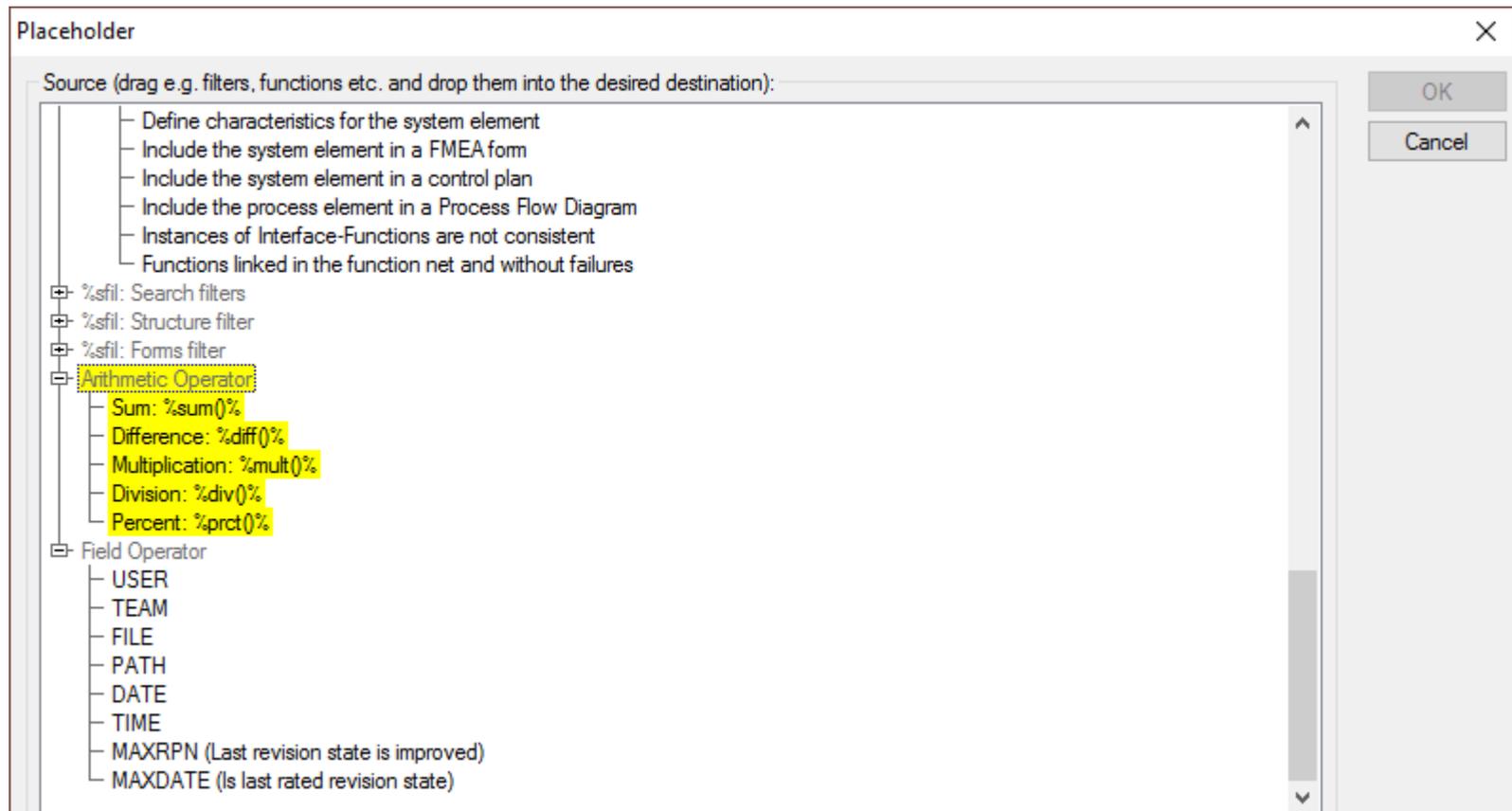


## Step by Step

# Use arithmetical functions as Placeholders in Notes (V 6.5 - SP 0140)



Arithmetical functions are a handy new tool to view and compare information on your fme file and IQ objects. These are used in conjunction with Individual Quality Reports & Summary Functions in the "Note" of the IQ object. Below is an example of how to use this functionality, currently available to maintenance customers only.





# Example: Percentage of completed actions in the current fme file

1. Create a structure filter for all the actions in the fme file.

Filter (Structure)

Available filters:

- Remove filter/highlighting
- User-defined filters
  - All completed actions
  - All relevant actions
- System-defined filters
  - Open deadlines
  - Open deadlines of the current...
  - Future deadlines
  - Deadlines overdue (all resp...
  - Actions without deadlines (v...
  - Improved actions
  - The top 10 failures (last rate...
  - The top 10 failures (initial st...
  - The top 10 failures (last cor...
  - Changes of structure versio...
  - Creation or modification dat...
  - Not completely connected f...
  - All objects with inclusion att...

Filter...

- Action by...
  - AND
    - Name contains \*
    - Status is unequal to rejected

Which kinds of objects shall be filtered?

Levels...

Back

Which filter criteria shall be scanned?

Criteria... Remove

Negate levels

Which operator shall be used for comparison?

Values... Remove

Apply

All languages

Default filter for opening fme files

Start Wizard to create new filters...

OK Cancel Help



## 2. Create a structure filter for all completed actions.

Filter (Structure) [X]

Available filters:

New... Properties Copy... Delete Import Export

- Remove filter/highlighting
  - User-defined filters
    - All completed actions**
    - All relevant actions
  - System-defined filters
    - Open deadlines
    - Open deadlines of the current...
    - Future deadlines
    - Deadlines overdue (all resp...
    - Actions without deadlines (v...
    - Improved actions
    - The top 10 failures (last rate...
    - The top 10 failures (initial st...
    - The top 10 failures (last cor...
    - Changes of structure versio...
    - Creation or modification dat...
    - Not completely connected f...
    - All objects with inclusion att...

Filter...

**Action: Status equals completed**

A single filter applies to all kinds of objects. To apply a filter to a selected set of objects types, please use a detail filter.

Details

Which filter criteria shall be scanned?

Criteria... Remove

Which operator shall be used for comparison?

[Dropdown]

Which condition values (\* as wildcard, | as alternative) are to be used?

Values... Remove

Apply

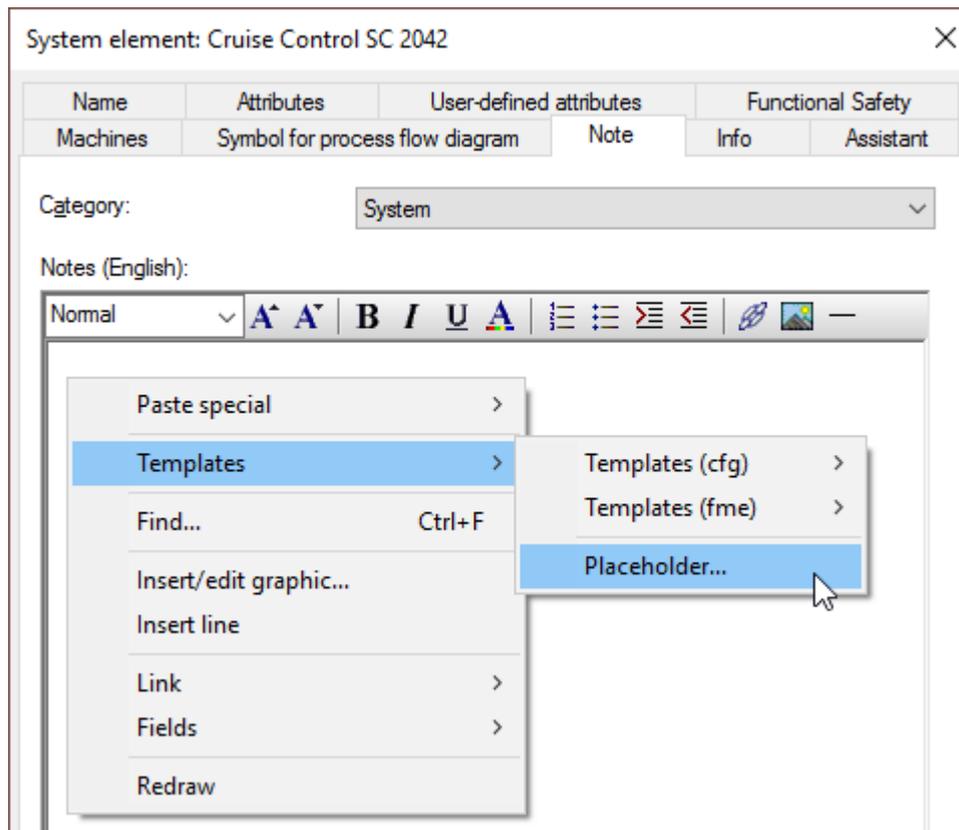
All languages [Dropdown]

Default filter for opening fme files  
 Start Wizard to create new filters...

OK Cancel Help



3. Open “Note” (Ctrl + B) for an IQ object. In this example, a system element is used. Then use the context menu and select “Templates | Placeholder”.





#### 4. Drag & Drop the placeholder “Percent: %prct()%” on to “summary function/placeholder” in the “Destination” dialog.

The screenshot shows a dialog box titled "Placeholder" with a close button (X) in the top right corner. The dialog is divided into two main sections: "Source" and "Destination".

**Source:** (drag e.g. filters, functions etc. and drop them into the desired destination):

- Define characteristics for the system element
- Include the system element in a FMEA form
- Include the system element in a control plan
- Include the process element in a Process Flow Diagram
- Instances of Interface-Functions are not consistent
- Functions linked in the function net and without failures
- [-] %sfil: Search filters
  - [-] %sfil: Structure filter
  - [-] %sfil: Forms filter
- [-] Arithmetic Operator
  - Sum: %sum0%
  - Difference: %diff0%
  - Multiplication: %mult0%
  - Division: %div0%
  - Percent: %prct0%**
- [-] Field Operator
  - USER
  - TEAM
  - FILE
  - PATH
  - DATE
  - TIME
  - MAXRPN (Last revision state is improved)
  - MAXDATE (Is last rated revision state)

**Destination:**

- summary function/placeholder**

A red arrow labeled "Drag&Drop" points from the "Percent: %prct0%" item in the source list to the "summary function/placeholder" item in the destination list. On the right side of the dialog, there are buttons for "OK", "Cancel", "Move up", "Move down", "Remove", and "Preview".



5. Select both of the structure filters and drag them on to “Percent: %prct()%”.

The screenshot displays the APIS interface for configuring filters. On the left, a tree view shows the following structure:

- %sfil: Search filters
- %sfil: Structure filter
  - All completed actions
  - All relevant actions
- Systemgenerated filter
  - Actions without deadlines (without symbolic)
  - All objects with inclusion attribute
  - Changes of structure version [p]
  - Creation or modification date (stamp) [p]
  - Deadlines overdue (all responsables)
  - Future deadlines
  - Improved actions
  - Not completely connected failure net [p]
  - Open deadlines
  - Open deadlines of the current user
  - The top 10 failures (initial state) [p]
  - The top 10 failures (last completed revision state) [p]

Below the list, the "Destination:" field contains a tree view with the following structure:

- summary function/placeholder
  - Percent: %prct()%

A red arrow points from the "All completed actions" and "All relevant actions" filters to the "Percent: %prct()%" field. On the right side, there are four buttons: "Move up", "Move down", "Remove", and "Preview".



6. Sort the filters so that “All completed actions” is above “All relevant actions”. This will result the correct calculation being made: Percentage = “All completed actions” / “All relevant actions” \* 100. Then click “OK”.

The screenshot shows the 'Placeholder' dialog box with two main sections: 'Source' and 'Destination'. In the 'Source' section, a tree view contains several filters, with 'All completed actions' and 'All relevant actions' highlighted in yellow. In the 'Destination' section, the same two filters are present, but 'All completed actions' is now positioned above 'All relevant actions'. A red arrow points from the 'Move up' button to the 'All completed actions' filter in the source list. Another red arrow points from the 'Move up' button to the 'All completed actions' filter in the destination list. The 'OK' button is highlighted in blue, and a red arrow points to it from the 'Move up' button. The 'Cancel' button is also visible.



System element: Cruise Control SC 2042

Name	Attributes	User-defined attributes	Functional Safety	Machines
Symbol for process flow diagram		Note	Info	Assistant

Category: System

Notes (English):

Normal

Percent: %prct(sfil(All completed actions),sfil(All relevant actions))%

7. The “Note” tab will now contain the placeholder.

8. Recommended step: copy “All completed actions” and paste it above the placeholder.

System element: Cruise Control SC 2042

Name	Attributes	User-defined attributes	Functional Safety	Machines
Symbol for process flow diagram		Note	Info	Assistant

Category: System

Notes (English):

Normal

All completed actions: |

Percent: %prct(sfil(All completed actions),sfil(All relevant actions))%



9. Press the F9 keyboard key to update the placeholder.

System element: Cruise Control SC 2042

Name	Attributes	User-defined attributes	Functional Safety	Machines
Symbol for process flow diagram		Note	Info	Assistant

Category: System

Notes (English):

Normal

All completed actions:  
Percent: 74,36 %



10. Recommended step: save the new placeholder in either the cfg- or fme file as a template for future use.

System element: Cruise Control SC 2042

Name	Attributes	User-defined attributes	Functional Safety	Machines
Symbol for process flow diagram		Note	Info	Assistant

Category: System

Notes (English):

Normal

All completed actions:  
Percent: 74,36 %

- Copy (Ctrl+C)
- Cut (Ctrl+X)
- Paste special >
- Templates >**
  - Templates (cfg) >
  - Templates (fme) >**
    - Placeholder...
    - Update placeholder (F9)
    - Convert placeholder text into static text (Shift+Ctrl+F9)
    - Placeholder source code...
- Find... (Ctrl+F)
- Insert/edit graphic...
- Insert line
- Save as...
- Save image as...
- Embed referenced documents/graphics

- Prozent abgeschlossene Maßnahmen
- Percentage of completed actions
- Save as template...**
- Administration...

11. Name the template. That's it, you're finished!

Please enter

Please enter a template name

Percentage of completed actions

OK Cancel