

## Step by Step

# How to use 'Creation or modification date (stamp)' (V6.5 SP 0140)



While working in an ever expanding fme file, it helps to be able to have an immediate overview checker for IQ elements that have been created or changed. This new system-defined filter allows you to select one or more IQ objects and assess exactly this. Below is an example of how to implement this new functionality available since the release of Service Pack 0140 for Version 6.5.

Filter (Structure) [X]

Available filters:

- Remove filter/highlighting
- User-defined filters
- System-defined filters
  - Open deadlines
  - Open deadlines of the current user
  - Future deadlines
  - Deadlines overdue (all responsables)
  - Actions without deadlines (without symbolic)
  - Improved actions
  - The top 10 failures (last rated revision state)
  - The top 10 failures (initial state) [p]
  - The top 10 failures (last completed revision)
  - Changes of structure version [p]
  - Creation or modification date (stamp) [p]**
  - Not completely connected failure net [p]
  - All objects with inclusion attribute

Buttons: New... Properties Copy... Delete Import Export

Filter...  
All objects will be filtered that have been created or modified in relation to a selected comparison date. The properties of the filter can be used to define the comparison date and operator, which types of objects are to be taken into account, how the criteria are to be linked logically and which user has made the last changes.

Which kinds of objects shall be filtered?  
Levels...  
Details  
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



## Example: 2 new system elements created and 2 existing elements changed in Structure Editor.

For this example, I have taken the 'Cruise Control SC 2042' from the Example.fme file. (This file is available to you in multiple languages in the 'Data' directory of your IQ Software Installation). I will also use the 'Highlight' as well as the 'Filter' functionality as a combination of both can help display the results better.

The screenshot displays the Structure Editor interface for 'CC 2042 - signal cable constructive design [Design]'. The main workspace shows a hierarchical tree structure:

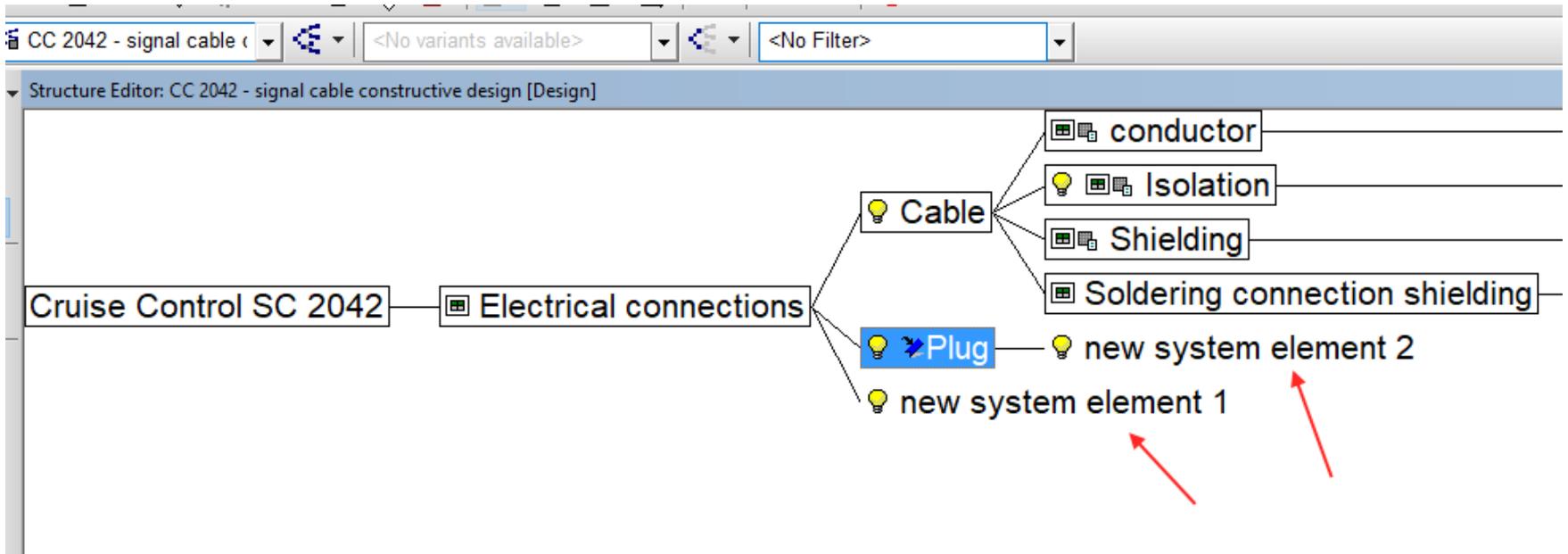
- Cruise Control SC 2042 (highlighted in blue)
  - Electrical connections
    - Cable
      - conductor
      - Isolation
      - Shielding
      - Soldering connection shielding
    - Plug

The right-hand pane shows a filtered list of elements, including:

- 2 Cruise Control SC 2
- 2.a control prop
- S=9 2.a.1 drive
- S=7 2.a.2 drive
- 2.a.3 loss of fun
- 2.a.4 cruise c
- 2.b enable eme
- 2.c signal state of
- S=9 2.c.1 does
- 2.d meet lega
- 2.e comply with
- S=5 2.e.1 does



I now add 2 new system elements:





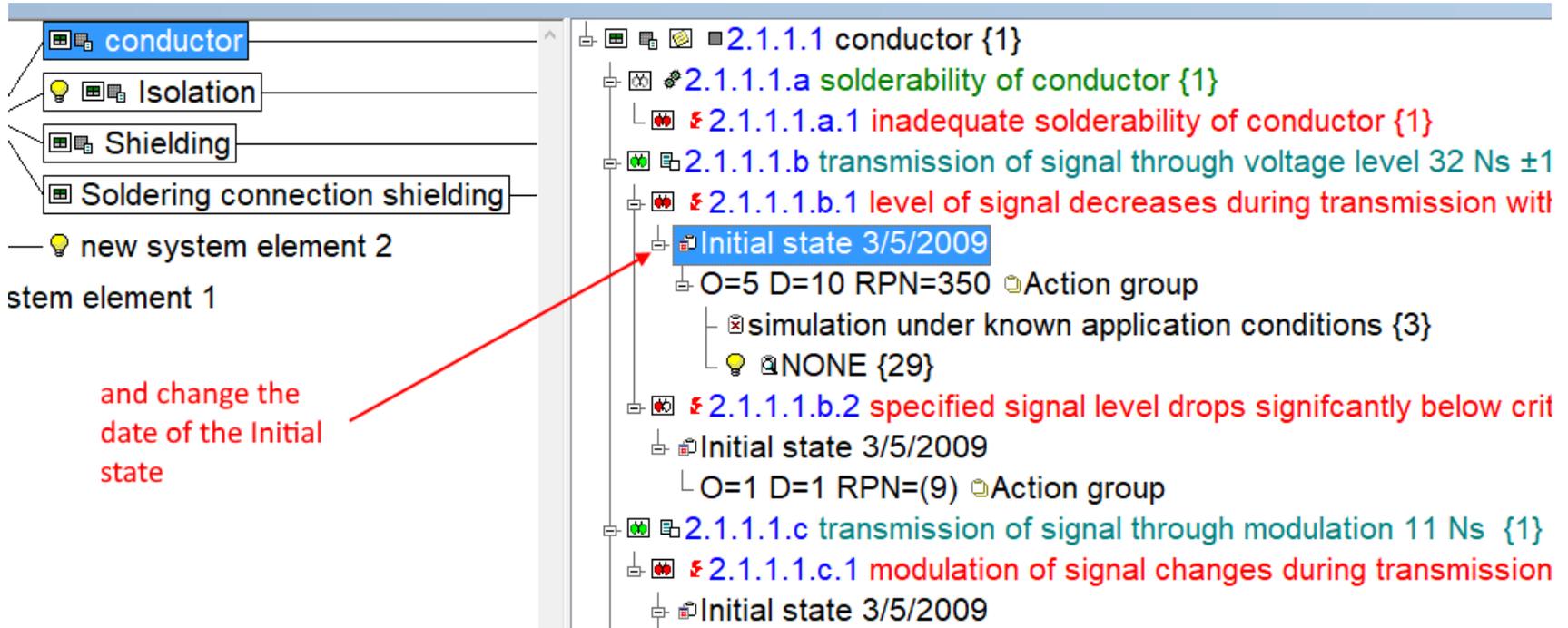
and alter 2 existing elements. The first by deleting an instance:

The screenshot displays a software interface with two main panels. The left panel shows a hierarchical tree structure with a root node 'Cable' (lightbulb icon) and four child nodes: 'conductor' (highlighted in blue), 'Isolation', 'Shielding', and 'Soldering connection shielding'. Below this are three other nodes: 'Plug' (with a plug icon), 'new system element 2', and 'new system element 1'. The right panel shows a detailed view of the 'conductor' element, with a path: '2.1.1.1 conductor {1}' > '2.1.1.1.a solderability of conductor {1}' > '2.1.1.1.a.1 inadequate solderability of conductor {1}' > '2.1.1.1.b transmission of signal through voltage level {1}' > '2.1.1.1.b.1 level of signal decreases during transmission {1}' > 'Initial state 3/5/2009' > 'O=5 D=10 RPN=350 Action group' > 'simulation under known application conditions {3}' > 'NONE {29}' > 'NONE {29}' (highlighted in blue). Other nodes in the right panel include '2.1.1.1.b.2 specified signal level drops significantly below specified level {1}', '2.1.1.1.c transmission of signal through modulation 11', '2.1.1.1.c.1 modulation of signal changes during transmission {1}', 'Revision state 3/5/2009 [Deadline? (in progress)] {1}', and '2.1.1.1.d mechanical stability of conductor 37,2 MPa {1}'.

I will delete this element from 'conductor'



The second by altering a date:





To begin filtering: Click on the 'Filter' symbol in the Toolbar and select 'Creation or modification date (stamp)' and then select the 'Properties' tab above.

Filter (Structure)

Available filters:

- Remove filter/highlighting
- User-defined filters
- System-defined filters
  - Open deadlines
  - Open deadlines of the current
  - Future deadlines
  - Deadlines overdue (all respo
  - Actions without deadlines (w
  - Improved actions
  - The top 10 failures (last rate
  - The top 10 failures (initial st
  - The top 10 failures (last con
  - Creation or modification date**
  - Not completely connected fa
  - All objects with inclusion attr

Filter...

All objects will be filtered that have been created or modified in relation to a selected comparison date. The properties of the filter can be used to define the comparison date and operator, which types of objects are to be taken into account, how the criteria are to be linked logically and which user has made the last changes.

Which kinds of objects shall be filtered?

Levels...

Details

Which filter criteria shall be scanned?

Criteria... Remove

Negate levels

Which operator shall be used for comparison?

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

Values... Remove

Apply

All languages

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

OK Cancel Help

Select the new system-defined filter and then click on 'Properties'



This dialog box will now open:

Please select ✕

**IQ objects** | Creation date | Modification date | Name of the last modifying person

- System element
- Function
- Characteristic
- Failure
- Revision state
- Action group
- Action
- Reaction plan
- Control method
- Error detection
- Error response

How should the individual criteria be linked/connected logically?

AND ▾



If you are unsure which IQ objects you are looking for, leave all the boxes ticked. Then choose how the criteria should be linked. 'Criteria' in this case applies to 'Creation date', 'Modification date', and 'Name of the last modifying person'. Here I have chosen 'OR' and will apply this logic to 'Creation date' and 'Modification date'. I will leave 'Name of the last modifying person' empty.

Please select

IQ objects   Creation date   Modification date   Name of the last modifying person

- System element
- Function
- Characteristic
- Failure
- Revision state
- Action group
- Action
- Reaction plan
- Control method
- Error detection
- Error response

All   None

How should the individual criteria be linked/connected logically?

OR  
AND  
OR  
XOR

OK   Cancel



## AND, OR, & XOR Explained:

- If 'AND' is selected: the filter will only produce a result if the search matches all 3 of the tabs criteria (or in my example just 2 tabs)
- If 'OR' is selected, one or more filter matches is enough to produce a result. (This can mean all 3 as well, but also just 1 of the 3).
- 'XOR' means only one match can be made from potentially several selections, but not more than one.

Then select the tab 'Creation date' and tick the box 'Activate' (If you are looking for newly created elements). Here in the example I have selected the 'from' date as the beginning of last week.

## Operators explained:

- '<' : up to but not including the selected date.
- '<=' : up to and including the selected date.
- '=' : only the date selected.
- '>=' : since and including the selected date up until today.
- '>' : since that date but not including that day up until today.



Please select ✕

IQ objects  Creation date  Modification date  Name of the last modifying person

Activate

Creation date

May 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Heute: 6/8/2017

Which operator shall be used for comparison?

>=

OK Cancel



Do the same for in the 'Modification date' tab (If you are looking for modified elements as well, which I am):

Please select

IQ objects | Creation date | **Modification date** | Name of the last modifying person

Activate

Modification date

May 2017						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Heute: 6/8/2017

Which operator shall be used for comparison?

>=

OK Cancel



Then select the last tab 'Name of the last modifying person'. I advise to leave this box unticked. You can check later which user is responsible for the changes (see following steps).

The screenshot shows a dialog box titled "Please select" with a close button (X) in the top right corner. It features four tabs: "IQ objects", "Creation date", "Modification date", and "Name of the last modifying person". The "Name of the last modifying person" tab is selected. Inside the dialog, there is an unchecked checkbox labeled "Activate" with a red arrow pointing to it from the text "leave box unticked". Below the checkbox is an empty text input field. To the right of the input field is a "Selection..." button. At the bottom of the dialog are "OK" and "Cancel" buttons.



Click 'OK' to activate the filter.

Filter (Structure) [X]

Available filters:

- Remove filter/highlighting
- User-defined filters
- System-defined filters
  - Open deadlines
  - Open deadlines of the current user
  - Future deadlines
  - Deadlines overdue (all responsables)
  - Actions without deadlines (without symbolic)
  - Improved actions
  - The top 10 failures (last rated revision state) [p]
  - The top 10 failures (initial state) [p]
  - The top 10 failures (last completed revision state)
  - Changes of structure version [p]
  - > Creation or modification date (stamp) [p]**
  - Not completely connected failure net [p]
  - All objects with inclusion attribute

Filter...

All objects will be filtered that have been created or modified in relation to a selected comparison date. The properties of the filter can be used to define the comparison date and operator, which types of objects are to be taken into account, how the criteria are to be linked logically and which user has made the last changes.

Which kinds of objects shall be filtered?

Levels...

Details

Which filter criteria shall be scanned?

Criteria... Remove

Negate levels

Which operator shall be used for comparison?

Values... Remove

Apply

All languages

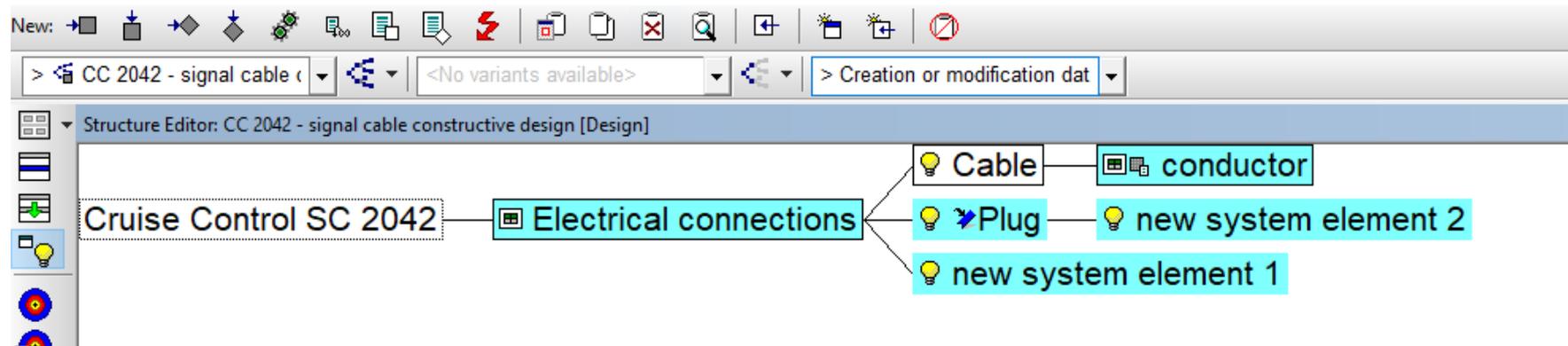
Default filter for opening fme files

Start Wizard to create new filters...

OK Cancel Help



The elements filtered in the search are highlighted in turquoise. The IQ objects 'Electrical connections' and 'Plug' are highlighted because they have new elements attached to them.





By clicking on 'conductor', you will only see the functions and their corresponding elements that have been changed.

The screenshot displays a software interface with a tree view on the left and a detailed view on the right. The tree view shows a hierarchy starting with 'Electrical connections', which branches into 'Cable', 'Plug', and 'new system element 1'. 'Cable' further branches into 'conductor', 'new system element 2', and 'new system element 1'. The 'conductor' element is highlighted in blue, and a red arrow points to it. The detailed view on the right shows the following structure:

- 2.1.1.1 conductor {1}
  - 2.1.1.1.b transmission of signal through voltage level 32 Ns ±1 {1}
    - 2.1.1.1.b.1 level of signal decreases during transmission within the
      - Initial state 6/8/2017
        - O=5 D=10 RPN=350 Action group
          - simulation under known application conditions {3}
  - 2.1.1.1.c transmission of signal through modulation 11 Ns {1}
    - 2.1.1.1.c.1 modulation of signal changes during transmission within the
      - Initial state 3/5/2009
        - O=7 D=? RPN=? Action group



It is useful here to use the 'Highlight' functionality in the Toolbar instead of 'Filter', as this will highlight the exact elements in the Structure list that have been modified. Click on 'Highlight' and select the same system filter. As the criteria has already been entered, you only then need to click on 'OK'.

Highlighting (Structure)

Available filters:

- Remove filter/highlighting
- User-defined filters
- System-defined filters
  - Open deadlines
  - Open deadlines of the current...
  - Future deadlines
  - Deadlines overdue (all respo...
  - Actions without deadlines (w...
  - Improved actions
  - The top 10 failures (last rate...
  - The top 10 failures (initial st...
  - The top 10 failures (last con...
  - Changes of structure versio...
  - Creation or modification date
  - Not completely connected fa...
  - All objects with inclusion attr...

Filter...

All objects will be filtered that have been created or modified in relation to a selected comparison date. The properties of the filter can be used to define the comparison date and operator, which types of objects are to be taken into account, how the criteria are to be linked logically and which user has made the last changes.

Which kinds of objects shall be filtered?

Levels...

Details

Which filter criteria shall be scanned?

Criteria... Remove

Negate levels

Which operator shall be used for comparison?

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

Values... Remove

Apply

All languages

Default filter for opening fme files

Start Wizard to create new filters...

OK Cancel Help



Now you can see the exact elements highlighted that were modified.

The screenshot displays a software interface with two panes. The left pane shows a simplified tree structure with the following elements:

- conductor
- Isolation
- Shielding
- Soldering connection shielding
- new system element 2
- system element 1

The right pane shows a detailed view of the selected element, '2.1.1.1 conductor {1}'. The tree structure is as follows:

- 2.1.1.1 conductor {1}
  - 2.1.1.1.a solderability of conductor {1}
    - 2.1.1.1.a.1 inadequate solderability of conductor {1}
  - 2.1.1.1.b transmission of signal through voltage level 32 Ns ±1 {
    - 2.1.1.1.b.1 level of signal decreases during transmission withi
      - (HL) Initial state 6/8/2017
        - O=5 D=10 RPN=350 Action group
          - (HL) simulation under known application conditions {3}
          - NONE {28}
      - 2.1.1.1.b.2 specified signal level drops significantly below critic
        - Initial state 3/5/2009
          - O=1 D=1 RPN=(9) Action group
    - 2.1.1.1.c transmission of signal through modulation 11 Ns {1}
      - 2.1.1.1.c.1 modulation of signal changes during transmission v
        - Initial state 3/5/2009
          - (HL) O=7 D=? RPN=? Action group
            - NONE {27}
          - Revision state 3/5/2009 [Deadline? (in progress) Respons
            - O=7 D=7 RPN=(441) Action group [Deadline? (in progress)
              - simulation of transmission (favored concept) under currently
      - 2.1.1.1.d mechanical stability of conductor 37,2 MPa {1}
        - 2.1.1.1.d.1 has insufficient mechanical stability {4}
          - Initial state 3/5/2009
            - O=7 D=10 RPN=350 Action group
              - NONE {27}
              - NONE {28}



To check which user and the exact date or creation/modification, right-click on the element and select 'Info'.

- conductor
- Isolation
- Shielding
- Soldering connection shielding
- new system element 2
- em element 1

2.1.1.1 conductor {1}

- 2.1.1.1.a solderability of conductor {1}
  - 2.1.1.1.a.1 inadequate solderability of conductor {1}
  - 2.1.1.1.b transmission of signal through voltage level 32 Ns ±1 {1}
    - 2.1.1.1.b.1 level of signal decreases during transmission within
      - (HL) Initial state 6/8/2017
        - O=5 D=10 RPN=...
        - (HL) simulation...
        - NONE {28}
      - 2.1.1.1.b.2 spe...
      - Initial state 3/5/...
      - O=1 D=1 RPN=...
    - 2.1.1.1.c transmi...
    - 2.1.1.1.c.1 moc...
    - Initial state 3/5/...
    - (HL) O=7 D=? R...
    - NONE {27}
    - Revision state 3...
    - O=7 D=7 RPN=...
    - simulation of...
  - 2.1.1.1.d mech...
  - 2.1.1.1.d.1 has...

conditions {3}

significantly below critica

ation 11 Ns {1}

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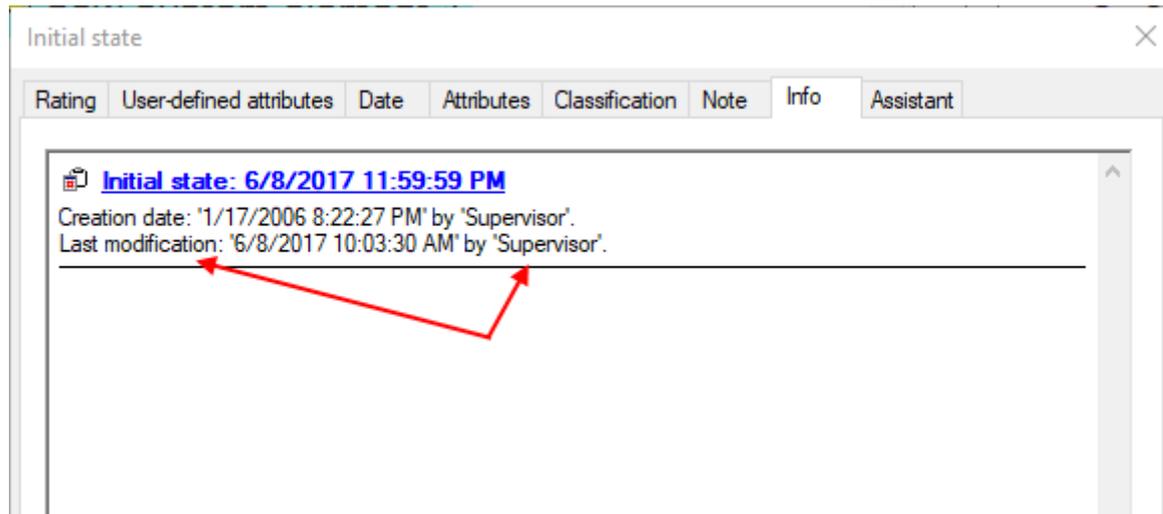
gress) Responsibil

line? (in progress)

pt) under currently

7,2 MPa {1}

ity {4}



That's it.