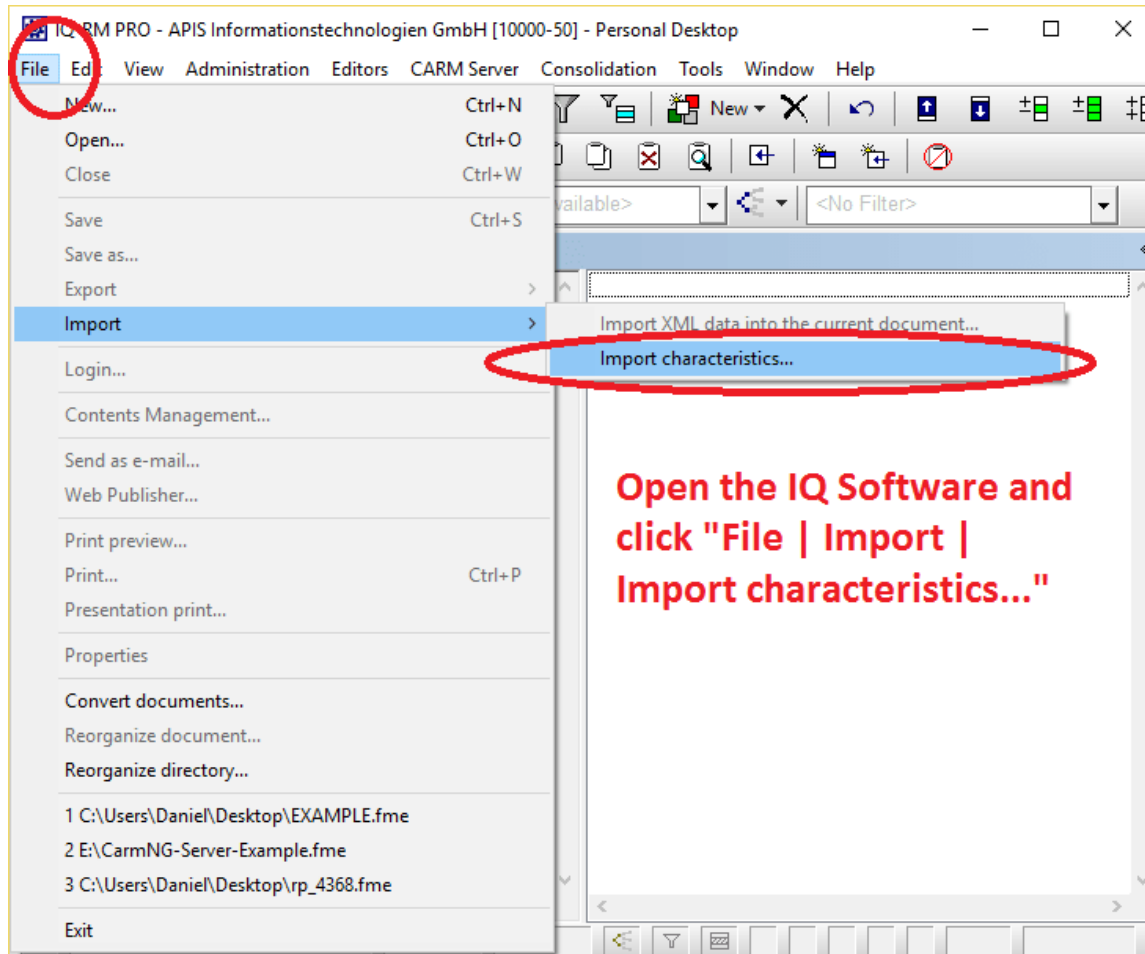


Step by step

# How to import characteristics & attributes from Excel

# Step 1



Click on "File | Import | Import characteristics..." (you do not have to open or create a new FME file to do this).

## Step 2

The screenshot displays the IQ-RM PRO software interface. The main window title is 'IQ-RM PRO - APIS Informationstechnologien GmbH [10000-50] - Personal Desktop'. The menu bar includes 'File', 'Edit', 'View', 'Administration', 'Editors', 'CARM Server', 'Consolidation', 'Tools', 'Window', and 'Help'. The toolbar contains various icons for file operations and navigation. The status bar shows 'New: > CC 2042 - manufacture signal cable [Process]' and '<No variant selected>'. The main workspace is divided into two panes. The left pane, titled 'Structure Editor: CC 2042 - manufacture signal cable [Process]', shows a hierarchical tree of tasks. The 'Soldering iron' task is highlighted with a red circle. The right pane shows a detailed view of the 'soldering iron {3}' task, listing characteristics such as 'temperature of soldering iron tip = according to work instr', 'Test sample (check by shift supervisor)', and 'temperature of soldering iron tip falls below lower limit'.

**Or you can select a system element in an existing FME file, to add characteristics and their attributes to**

Alternatively, you can import characteristics into an existing FME file. For this you need to click on the system element that you want the import to go to.

# Step 3

IO-RM PRO - APIS Informationstechnologien GmbH [10000-50] - Personal Desktop

File Edit View Administration Editors CARM Server Consolidation Tools Window Help

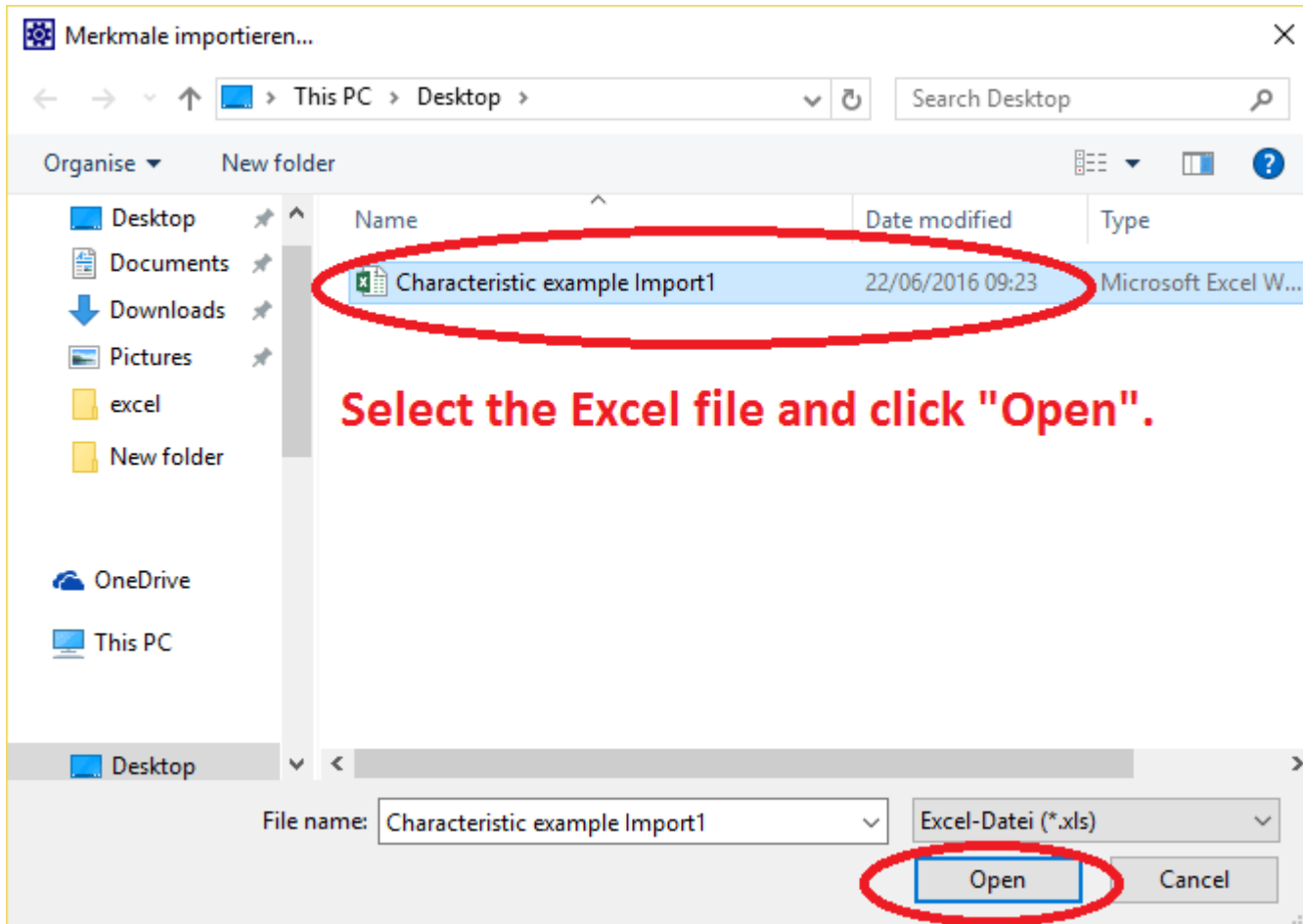
New... Ctrl+N  
Open... Ctrl+O  
Close Ctrl+W  
Save Ctrl+S  
Save as...  
Export  
**Import**  
Login...  
Contents Management...  
Send as e-mail...  
Web Publisher...  
Print preview...  
Print... Ctrl+P  
Presentation print...  
Properties  
Convert documents...  
Reorganize document...  
Reorganize directory...  
1 C:\Users\Daniel\Desktop\EXAMPLE.fme  
2 E:\CarmNG-Server-Example.fme  
3 C:\Users\Daniel\Desktop\vp\_4368.fme  
Exit

Import YML data into the current document  
**Import characteristics...**  
soldering iron  
Setter  
Operator  
soldering iron  
Operator  
Operator  
Test adaptor  
Operator  
Printer  
Setter  
Operator  
soldering iron

and then click "File | Import | Import characteristics..."

Then, while the system element is highlighted, click "File | Import | Import characteristics..."

## Step 4



**Select the Excel file and click "Open".**

Select the Excel file to be imported

# Step 5

Import characteristics: Map fields

Table  
Tabelle1 (19 Columns x 4 Rows)

Reference language: English

1	2	3	4	5	6	7	8	9
System element	Product character- istic	Product c: Note	Product c: Number	Product c: Opera- tor	Product c: Value	Product c: Unit	Product c: Toler- ance	Product c: Up limit
SE1	diameter	see specification 0815	1.1.1	=	10	mm	(+/- 0.5)	10.50000000
SE2	diameter	see specification 0815	1.1.2	=	11	mm	(+/- 0.5)	11.50000000
SE3	diameter	see specification 0815	1.1.3	=	12	mm	(+/- 0.5)	12.50000000

Strategy

Auto-mapping      Save strategy

Reset                  Select mapping

Default                Delete

Data range

First data row:

Last data row:

OK      Cancel      Help

The IQ Software will automatically open this dialog in order to map the columns before importing it into the FME file. The information of the Excel file cannot be changed here.

# Step 6

Import characteristics: Map fields

Table:

Reference language:

1	2	3	4	5	6	7	8	9
System element	Product character- istic	Product c: Note	Product c: Number	Product c: Opera- tor	Product c: Value	Product c: Unit	Product c: Toler- ance	Product c: Uppl limit
SE1	diameter	see specification 0815	1.1.1	=	10		(+/- 0.3)	10.5000000000
SE2	diameter	see specification 0815	1.1.2	=	11	mm	(+/- 0.5)	11.5000000000
SE3	diameter	see specification 0815	1.1.3	=	12	mm	(+/- 0.5)	12.5000000000

Strategy

Data range

First data row:

Last data row:

**The first row in this excel sheet should not be imported.**

OK Cancel Help

Chose from/to which rows should be imported. In this example, the first row should be excluded from the import because they are column names and not data. If you do not insert a value into "Last data row" it will import every row after 2.

# Step 7

Import characteristics: Map fields

Table:

Reference language:

System element [Optional]	Product characteristic	Note (Product characteristic)	4	5	6	7	8	9
System element	Product characteristic	Product c: Note			Value	Product c: Unit	Product c: Tolerance	Product c: Upper limit
SE1	diameter	see specification 0815				mm	(+/- 0.5)	10.5000000000
SE2	diameter	see specification 0815				mm	(+/- 0.5)	11.5000000000
SE3	diameter	see specification 0815				mm	(+/- 0.5)	12.5000000000

**You can map the columns manually.**

Data range:  
First data row:  
Last data row:

Mapping options:

Buttons:

You can manually map each column. Each entry can be used once only.



# Step 8

Import characteristics: Map fields

Table: Tabelle1 (19 Columns x 4 Rows)

Reference language: English

System element [Optional]	Product characteristic	Note (Product characteristic)	Number (Product characteristic)	Operator (Product characteristic)	Value (Product characteristic)	Unit (Product characteristic)	Tolerance (Product characteristic)	USL (Product characteristic)
System element	Product characteristic	Product c: Note	Product c: Number	Product c: Operator	Product c: Value	Product c: Unit	Product c: Tolerance	Product c: Upper limit
SE1	diameter	see specification 0815	1.1.1	=	10	mm	(+/- 0.5)	10.5000000000
SE2	diameter	see specification 0815	1.1.2	=	11	mm	(+/- 0.5)	11.5000000000
SE3	diameter	see specification 0815				mm	(+/- 0.5)	12.5000000000

Please enter

Enter name for strategy:  
example mapping

OK Cancel

Strategy

Auto-mapping Save strategy  
Reset Select mapping  
Default Delete

Data range

First data row: 2  
Last data row:

OK Cancel Help

Once you have completed the mapping manually, you can save this template for future use.

Once you have finished mapping manually, you can save the layout by clicking "Save strategy" and naming it. Click "Select mapping" to bring up a list of your saved templates.

# Step 9

Import characteristics: Map fields

Table:

Reference language:

System element [Optional]	Product characteristic	Note (Product characteristic)	Number (Product characteristic)	Operator (Product characteristic)	Value (Product characteristic)	Unit (Product characteristic)	Tolerance (Product characteristic)	USL (Product characteristic)
System element	Product characteristic	Product c: Note	Product c: Number	Product c: Operator	Product c: Value	Product c: Unit	Product c: Tolerance	Product c: Upper limit
SE1	diameter	see specification 0815	1.1.1	=	10	mm	(+/- 0.5)	10.5000000000
SE2	diameter	see specification 0815	1.1.2	=	11	mm	(+/- 0.5)	11.5000000000
SE3	diameter	see specification 0815	1.1.3	=	12	mm	(+/- 0.5)	12.5000000000

Strategy

First data row:   
 Last data row:

**Click "Default" if you have already mapped your file in Excel correctly. An example file is available to you for download from our website.**

If your Excel file is already mapped, you can simply click "Default" and this will automatically select all entries. An example Excel file is available to download from the website, which is mapped already.

# Step 10

Import characteristics: Map fields

Table  
Tabelle1 (19 Columns x 4 Rows)

Reference language: English

System element [Optional]	Product characteristic	Note (Product characteristic)	Number (Product characteristic)	5	6	7	8	USL (Product characteristic)
System element	Product characteristic	Product c: Note	Product c: Number	Product c: Operator	Product c: Value	No entry		
SE1	diameter	see specification 0815	1.1.1	=	10			
SE2	diameter	see specification 0815	1.1.2	=	11			
SE3	diameter	see specification 0815	1.1.3	=	12			

Strategy

Data range  
 First data row:   
 Last data row:

**Any column with "No entry" will not be imported into the FME file**

Any column that is not allocated an entry will not be imported. For each row, 1 system element, 1 process characteristic with attributes & 1 product characteristic with attributes can be imported.

# Step 11

Import characteristics: Map fields

Table: Tabelle1 (19 Columns x 4 Rows)

Reference language: English

1	Product characteristic	Note (Product characteristic)	Number (Product characteristic)	Operator (Product characteristic)	Value (Product characteristic)	Unit (Product characteristic)	Tolerance (Product characteristic)	USL (Product characteristic)
System element	Product characteristic	Product c: Note	Product c: Number	Product c: Operator	Product c: Value	Product c: Unit	Product c: Tolerance	Product c: Upper limit
SE1	diameter	see specification 0815	1.1.1	=	10	mm	(+/- 0.5)	10.500000000
SE2	diameter	see specification 0815	1.1.2	=	11	mm	(+/- 0.5)	11.500000000
SE3	diameter	see specification 0815	1.1.3	=	12	mm	(+/- 0.5)	12.500000000

Strategy

Auto-mapping Save strategy

Reset Select mapping

Default Delete

Data range

First data row: 2

Last data row:

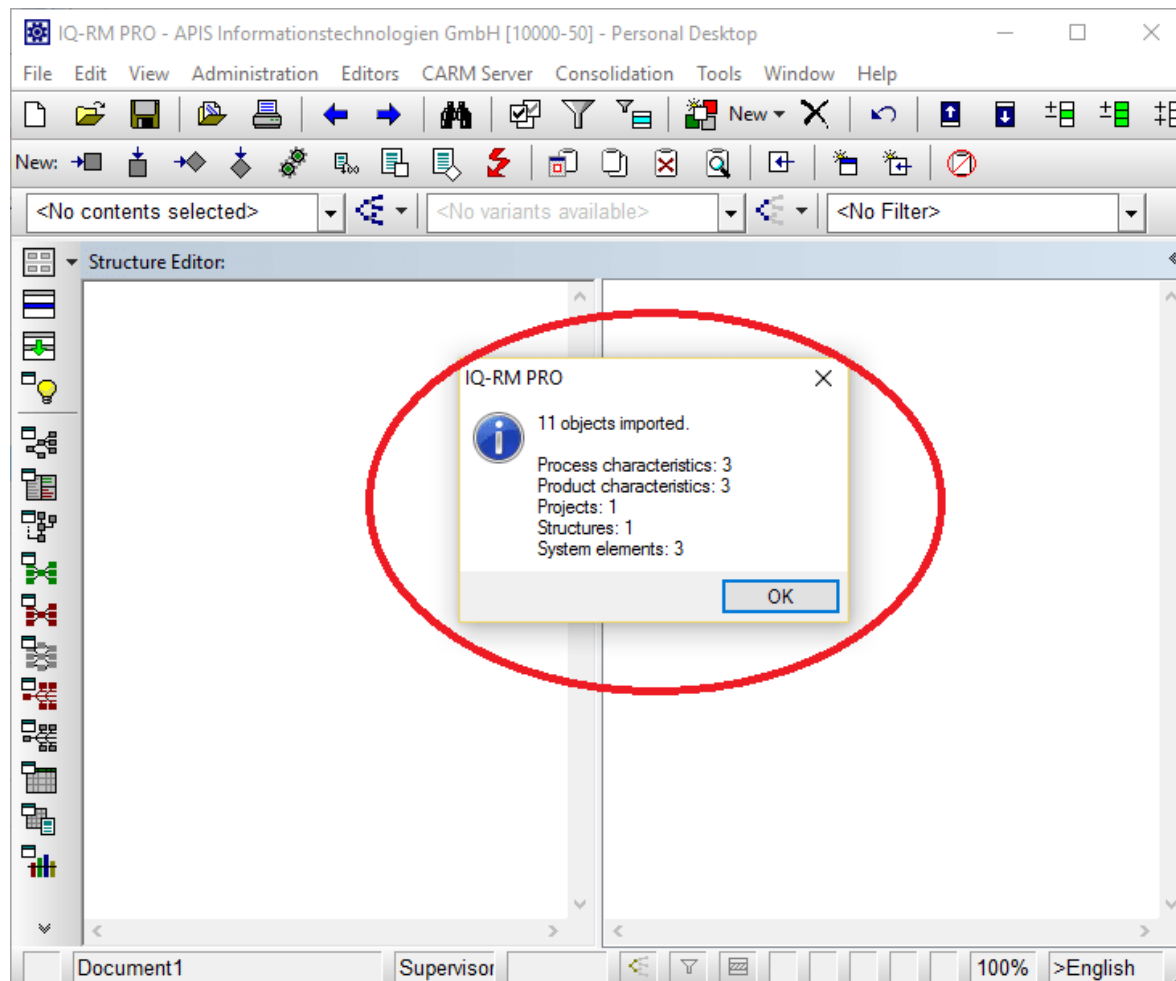
OK Cancel Help

If you have selected a system element before clicking "File | Import | Import characteristics...", then you can either select "System element (Optional)" or not. This will affect where the characteristics are imported. See following screenshots.

Depending on whether you select "System element (Optional)" or not will affect how the file is imported. This applies mainly when you are importing it to an already existing system element.

When you are finished mapping, click "OK"

# Step 12



This dialog will appear detailing the objects that have been imported.

# Step 13

The screenshot shows the IQ-RM PRO software interface. The title bar reads "IQ-RM PRO - APIS Informationstechnologien GmbH [10000-50] - Personal Desktop". The menu bar includes "File", "Edit", "View", "Administration", "Editors", "CARM Server", "Consolidation", "Tools", "Window", and "Help". The toolbar contains various icons for file operations and editing. The main window is titled "Structure Editor: Characteristic example Import1.xlsx [System]". On the left, a tree view shows a "System element" with three sub-elements: "SE1", "SE2", and "SE3". "SE1" is highlighted. On the right, the details for "SE1 {1}" are shown, including two attributes: "diameter = 10 mm (+/- 0.5) {1}" and "temperature of soldering = 200 celcius (+/- 10)". A red text overlay in the center of the details pane reads: "Both Product & Process characteristics with their attributes have been imported!". The status bar at the bottom shows "Document1", "Supervisor", "\$\$: Read/...", "100%", and ">English".

There you have it!

# Step 14

The screenshot shows the 'Structure Editor: CC 2042 - manufacture signal cable [Process]' window. The left pane lists process steps and their associated resources. The right pane shows a detailed view of the 'soldering iron {3}' element, listing its characteristics such as 'temperature of soldering iron tip = according to work instructions {2}', 'temperature of soldering iron tip falls below lower limit {3}', and 'temperature of soldering iron tip exceeds allowed upper limit {3}'. The 'soldering iron' element is highlighted in yellow in the left pane and circled in red in the right pane. A red text box is overlaid on the right pane with the following text:

**If the "System element (Optional)" column is not selected, the characteristics will be added to the system element "soldering iron"**

If you clicked on a system element before performing the import, the characteristics and their attributes will be transferred to the element itself. If you did not select the entry "System element (Optional)" while mapping, they will be anchored to the element itself

# Step 15

Structure Editor: CC 2042 - manufacture signal cable [Process]

- Appliance
  - Setter
- cable strands on plug pins
  - Operator
  - soldering iron
- welding on plug housing (ly)
  - Setter
  - Operator
  - soldering iron
    - SE1
    - SE2
    - SE3
- into strain-relief
  - Operator
- ing cable test
  - Operator
  - Test adaptor
- proof-of-testing label to e into
  - Operator
  - Printer
  - Setter

SE1 {1}

- diameter = 10 mm (+/- 0.5) {1}
- temperature of soldering = 200 celcius (+/- 10) {1}

**If the "System element (Optional)" is selected, the elements will extend to one more depth connected to "soldering iron"**

If you did select "System element (Optional)", the objects will be imported to a new level, but directly linked to the system element.