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# 1. 2021

## 1.1 July

### ReqIF requirements format (2021-07-22 10:56)

RIF/ReqIF (Requirements Interchange Format) is an XML file format suitable for lossless exchange of requirements in any industry. The old way of transmitting requirements were lossy like Office Documents, PDF or Spreadsheets, ReqIF offers solutions to keep the data integrity through the supply-chain.

It is used to exchange requirements, along with its associated metadata, between software tools from different vendors. ReqIF keeps the data integrity of requirements, attributes, additional files (e.g. images) through the supply-chain. ReqIF format also defines a workflow for transmitting the status of requirements between partners. Each object is uniquely identified by **GUID** (globally unique identifier inside a RIF / ReqIF file), ensures unique content across the data exchange processes.

## The interchange standard

Main players of the automotive industry in Germany agreed to conform to the RIF/ReqIF joint standard, initially developed by HIS Group, ProSTEP iViP, now maintained by OMG. (Object Management Group)

## History

In 2004, HIS (Herstellerinitiative Software) a consortium of German automotive manufacturers, defined a generic requirements interchange format called RIF.

The format was handed over in 2008 to [1]ProSTEP iViP e.V. for further maintenance. A project group responsible for international standardization further developed the format

and handed over a revised version to [2]Object Management Group (OMG) as "Request for Comment" in 2010.

As the acronym RIF had an ambiguous meaning within the OMG, the new name ReqIF was introduced to separate it from the W3C's [3]Rule Interchange Format.

In April 2011, the version 1.0.1 of ReqIF was adopted by OMG as a formal specification (OMG Document Number: formal/2011-04-02).

In October 2013, version 1.1 was published (OMG Document Number: formal/2013-10-01). Changes are restricted to the text of the standard, the XML schema and underlying model have not changed. Therefore, 1.1 and 1.0.1 .reqif files are equivalent.

In July 2016, version 1.2 was published (OMG Document Number: formal/2016-07-01). Like with the previous versions, changes are restricted to the text of the standard, the XML schema and underlying model have not changed. Therefore, 1.2, 1.1 and 1.0.1 .reqif files are equivalent.

Source: [4]wikipedia.org

## Naming conventions and structure of ReqIF files

The Prostep iViP published a guide how to exchange with ReqIF and an implementation guide for ReqIF, where you can find detailed information how to use this file format and also about the file structure, naming convention and interchange. To read about it, click on the link:

[5]Prostep iViP - ReqIF Recommendation

We recommend to read the [6]chapter 2, to get an overview about the common use cases of ReqIF file exchange. [7]Chapter 3 describes the custom attributes used in ReqIF, and [8]chapter 4 specifies the workflow of the SRC process.

[9]Prostep iViP - ReqIF Implementation Guide

For more technical details please look at the Prostep [10]Implementation Guide. We recommend to study the [11]chapter 2.1-2.3 for an overview.

1. [https://en.wikipedia.org/wiki/ProSTEP\\_iViP](https://en.wikipedia.org/wiki/ProSTEP_iViP)
2. [https://en.wikipedia.org/wiki/Object\\_Management\\_Group](https://en.wikipedia.org/wiki/Object_Management_Group)
3. [https://en.wikipedia.org/wiki/Rule\\_Interchange\\_Format](https://en.wikipedia.org/wiki/Rule_Interchange_Format)
4. [https://en.wikipedia.org/wiki/Requirements\\_Interchange\\_Format](https://en.wikipedia.org/wiki/Requirements_Interchange_Format)
5. [https://www.prostep.org/fileadmin/downloads/Recommendation\\_ReqIF\\_V2.1\\_final.pdf](https://www.prostep.org/fileadmin/downloads/Recommendation_ReqIF_V2.1_final.pdf)
6. [https://www.prostep.org/fileadmin/downloads/Recommendation\\_ReqIF\\_V2.1\\_final.pdf#page=8](https://www.prostep.org/fileadmin/downloads/Recommendation_ReqIF_V2.1_final.pdf#page=8)
7. [https://www.prostep.org/fileadmin/downloads/Recommendation\\_ReqIF\\_V2.1\\_final.pdf#page=24](https://www.prostep.org/fileadmin/downloads/Recommendation_ReqIF_V2.1_final.pdf#page=24)
8. [https://www.prostep.org/fileadmin/downloads/Recommendation\\_ReqIF\\_V2.1\\_final.pdf#page=29](https://www.prostep.org/fileadmin/downloads/Recommendation_ReqIF_V2.1_final.pdf#page=29)
9. [https://www.prostep.org/fileadmin/downloads/prostep-ivip\\_ImplementationGuide\\_ReqIF\\_V1-8.pdf](https://www.prostep.org/fileadmin/downloads/prostep-ivip_ImplementationGuide_ReqIF_V1-8.pdf)
10. [https://www.prostep.org/fileadmin/downloads/prostep-ivip\\_ImplementationGuide\\_ReqIF\\_V1-8.pdf](https://www.prostep.org/fileadmin/downloads/prostep-ivip_ImplementationGuide_ReqIF_V1-8.pdf)
11. [https://www.prostep.org/fileadmin/downloads/prostep-ivip\\_ImplementationGuide\\_ReqIF\\_V1-8.pdf#page=8](https://www.prostep.org/fileadmin/downloads/prostep-ivip_ImplementationGuide_ReqIF_V1-8.pdf#page=8)

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## Install ReqEdit (2021-07-22 10:56)

# System Requirements

Microsoft Windows x64  
.Net 4.7.2 runtime package  
MS EDGE browser or Chrome (for Compare Add-on HTML report)

## Operating systems

OS Version	Tested configuration	Limitations
------------	----------------------	-------------

Windows 11 Pro x64	.Net 4.8	
--------------------	----------	--

EDGE included		
---------------	--	--

Windows 10 Pro x64	.Net 4.8 / 21H	
--------------------	----------------	--

EDGE installed by update		
--------------------------	--	--

Windows 8.1 x64		
-----------------	--	--

EOL 2023-01-10	.Net 4.8	
----------------	----------	--

EDGE manually installed		
-------------------------	--	--

Windows 7 Enterprise x64

EOL 2020-01-14 .Net 4.8

EDGE installed manually

Windows Server 2022 Data Center x64 .Net 4.8

EDGE included

Windows Server 2019 Data Center x64 .Net 4.8

IE11 included on IE11 - HTML compare report, some features are missing

Windows Server 2016 Data Center x64 .Net 4.8

IE11 included on IE11 - HTML compare report, some features are missing

Windows Server 2012 R2 x64

EOL 2023-10-10 .Net 4.8

IE10 included

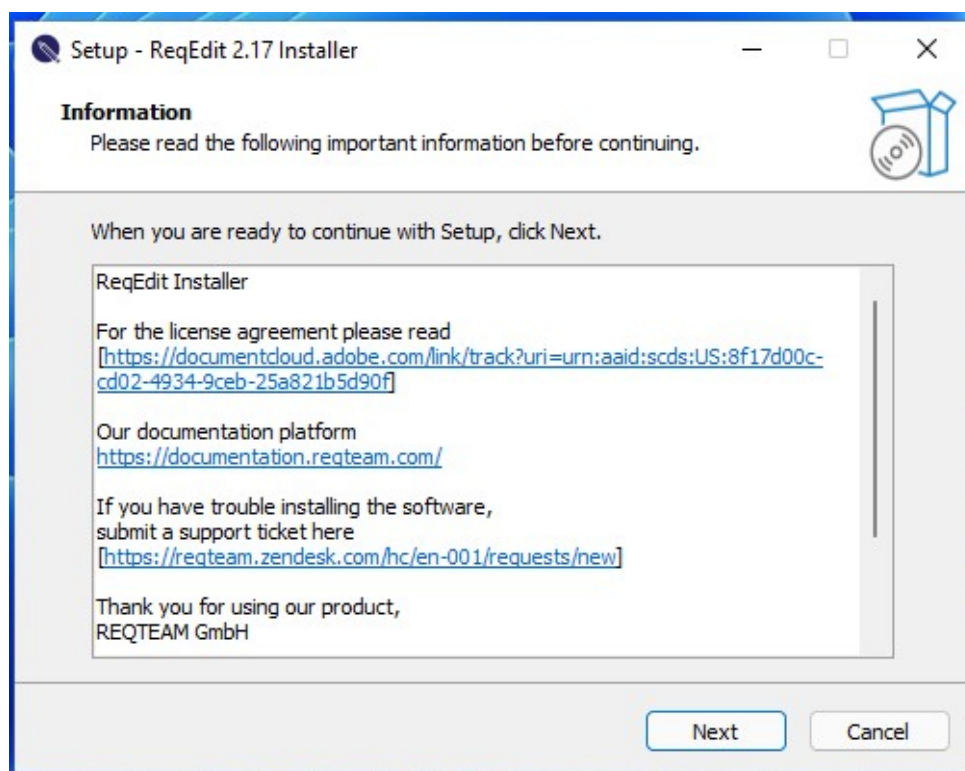
IE11 installed by update on IE11 - HTML compare report, some features are missing

Windows compatibility of ReqEdit 2.17 (2021 Nov)

## Installation

ReqEdit comes packaged into an installer that guides users through the install procedure. It will unpack the files into a custom user directory.

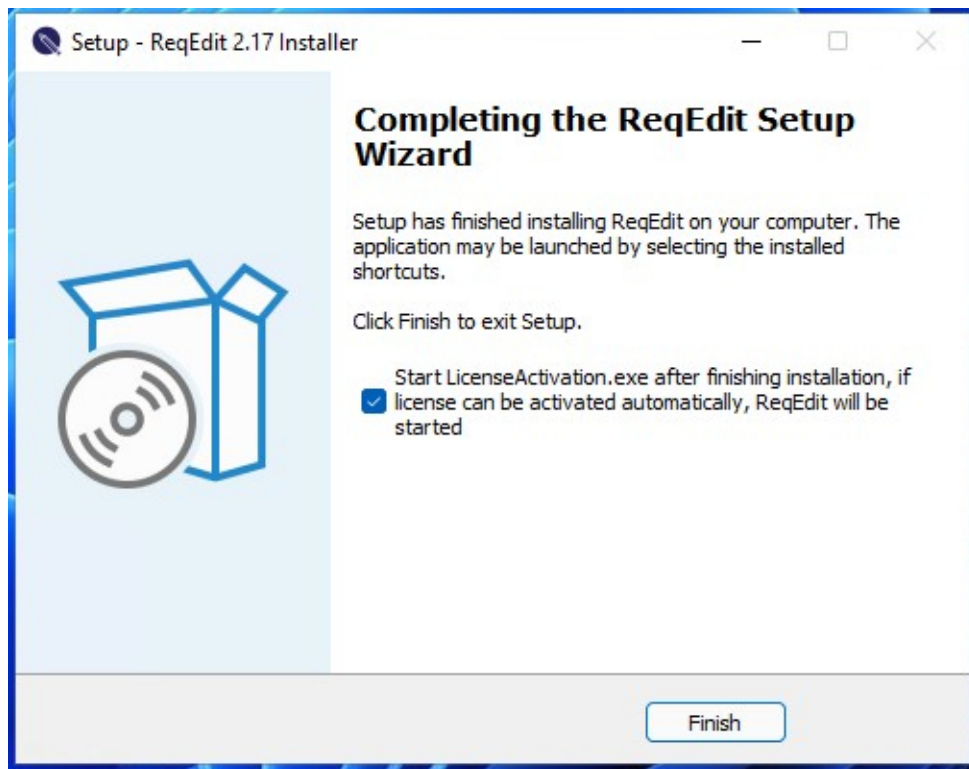
### Run the Installer



### Window Installation

Run the provided installer executable and go through the steps, default install path is the user profile folder in windows.

On the last step of the installer you can choose to activate the license. For that check the checkbox.



Window Start Activation Setup

## Licensing Models

After installation follow your model of licensing. More about licensing read [1]here.

1. <https://documentation.reqteam.com/licensing-models/>

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### Open ReqIF requirement files (2021-07-22 15:31)

ReqEdit is used to display contents of ReqIF requirement exchange files including attachments and images in ReqIF Archive files.

These are the key features:

- ReqIF requirement objects
- hierarchy structure
- Internal UUIDS
- attribute types
- specification attributes

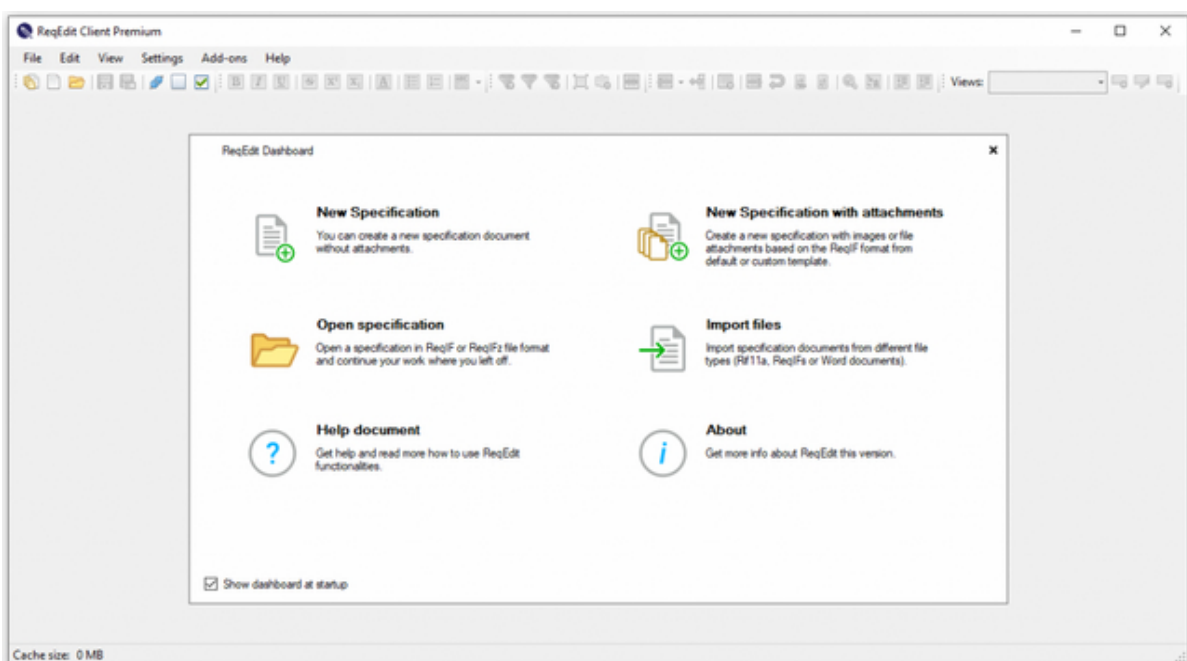
- object attributes and relations

For experienced users the **XML Editor add-on** can display the source code of the ReqIF file.

Supported RIF/ReqIF file extensions: RIF contents (**.xml .rif .zip**) or ReqIF content (**.reqif .reqifz**)

More about RIF and ReqIF files read **[1]here**.

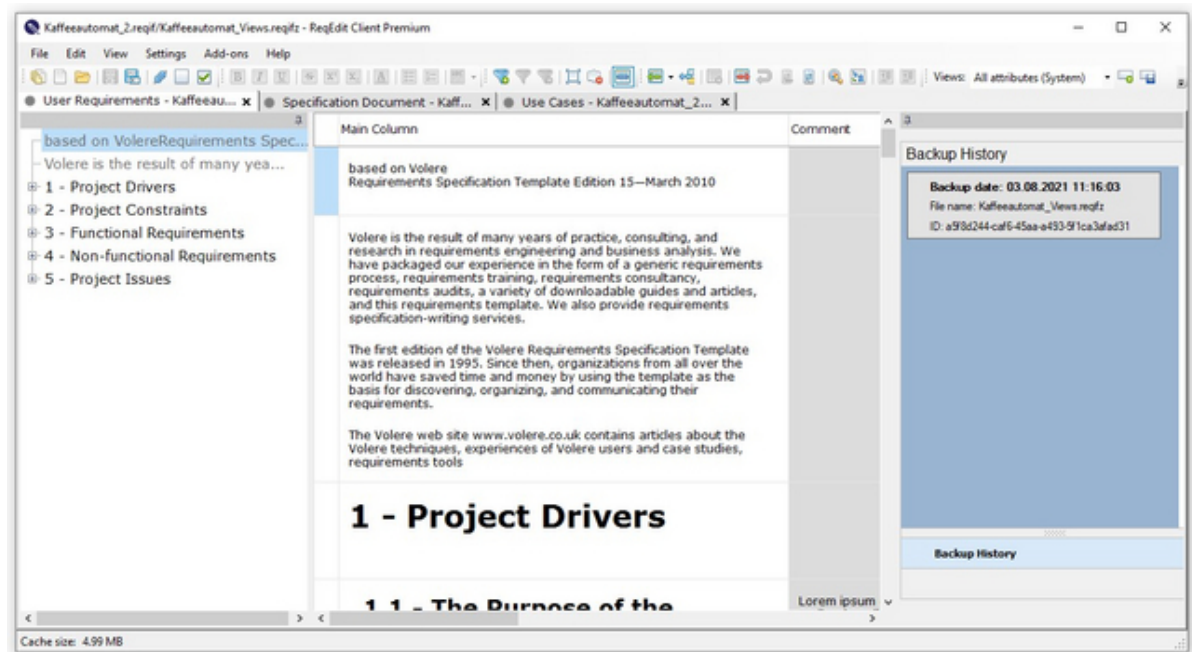
## Open file



Dashboard for ReqEdit

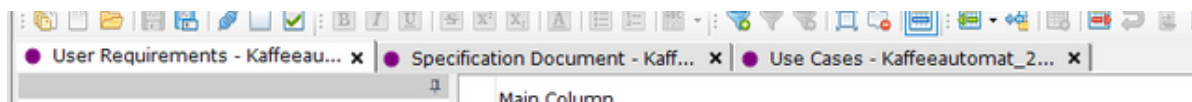
To open a file

- click on the Open Specification on the Dashboard or
- select File > Open on the main menu or
- press CTRL+O and then select the ReqIF file.



ReqEdit displaying an opened ReqIF file

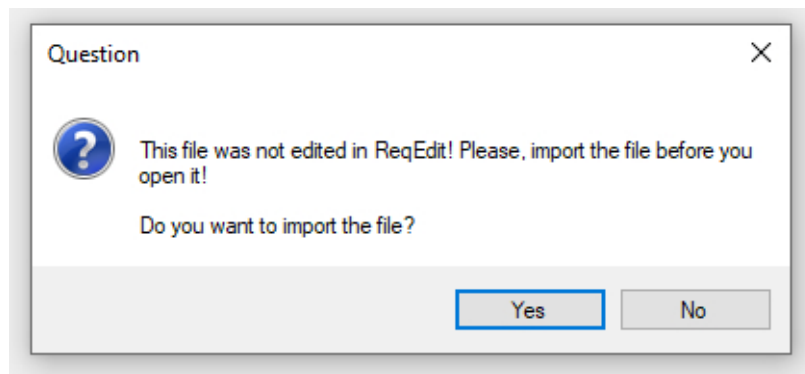
All containing specification documents are displayed as tabs in the tab bar.



ReqEdit tab bar showing a ReqIF with three specifications

## Compatible ReqIF files

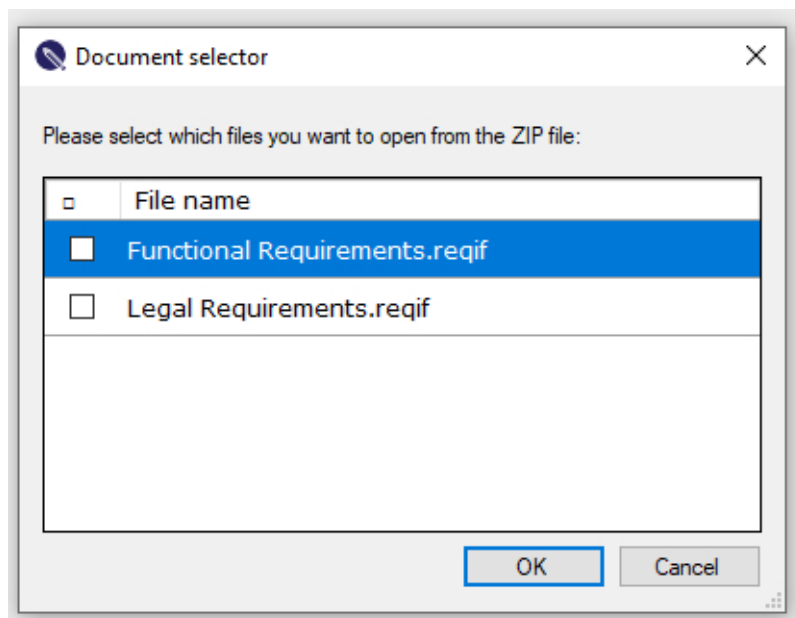
If the file is not a standard ReqIF file but ReqEdit can import it, a popup notifies the user. Import wizard starts and completes the steps to open file.



ReqEdit found an invalid ReqIF but asks the user for importing the file

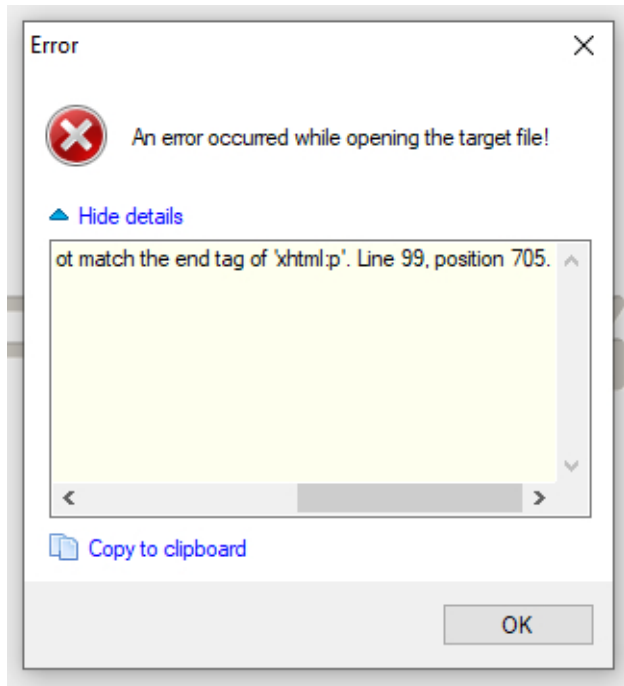
## Multi ReqIF Archives

If the opened document contains multiple ReqIF files (is an archive format .reqifz or .zip) a popup notification allows the user to select the files to open.



ReqEdit showing document selector for .zip or .reqifz files (containing two or more ReqIF files)

In case of any ReqIF errors, ReqEdit identifies the errors. Use **XML Editor Add-on** to correct.



Error message shows ReqEdit detected an invalid ReqIF source code

## ReqIF file format

ReqEdit follows [2]ReqIF standard on all levels. It will display contents of ReqIF files from structural to attribute definitions.

### ReqIF format

#### Attribute Types

atomic data types: boolean, date, enumeration, int, float, string, xhtml

#### Attributes

uses the basic attribute type definitions with optional restrictions: min, max, length, can

be defined for objects and specifications also

### **Object types**

collection of attribute types that are grouped together

### **Objects**

uses a specific object type and has values for each attribute

### **Values**

value objects for attributes of objects or specifications

### **Specification Types**

a collection of object types and specification attributes

### **Specifications**

uses a single specification type

### **Hierarchy**

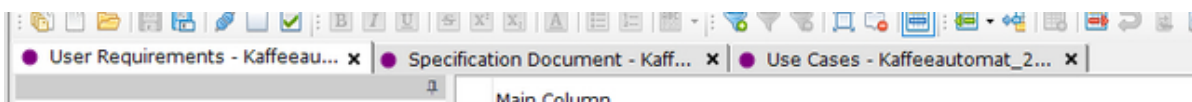
requirement object structure inside a specification

### **Relations**

links between the objects

## Documents

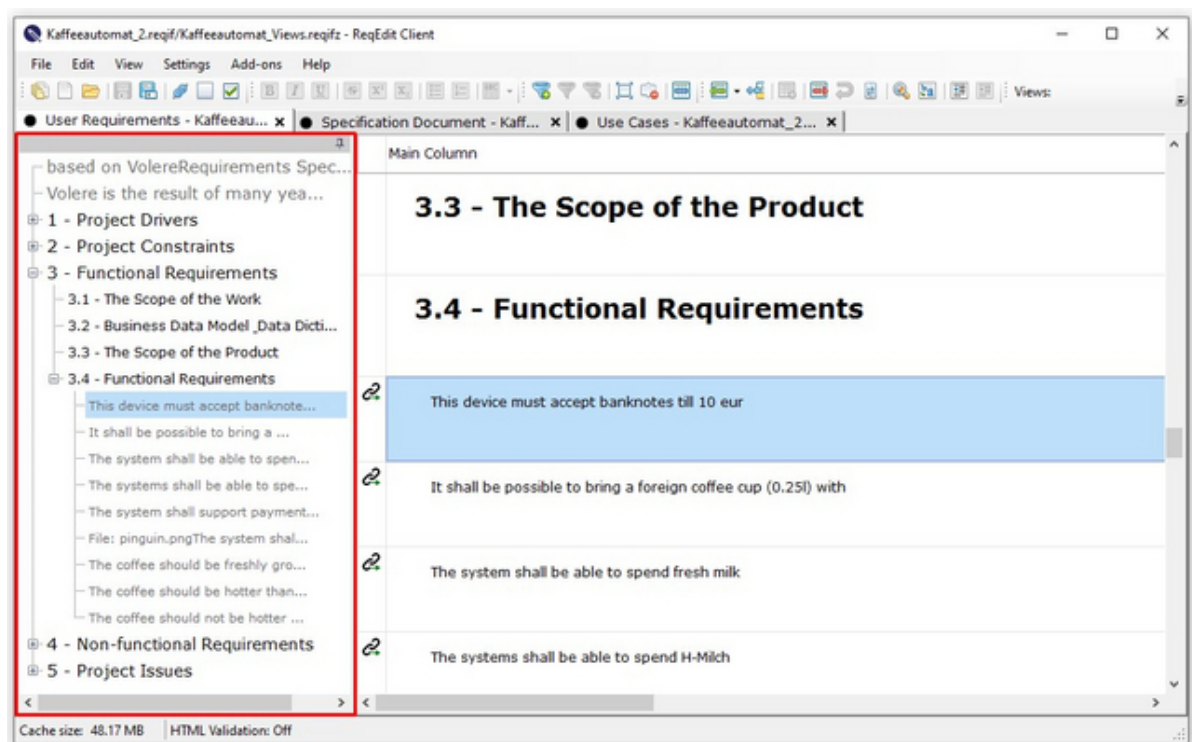
ReqIF requirements are grouped into specification documents, these are displayed in the **tab bar**. Each opened ReqIF file will have its own random color to indicate that the files are together.



ReqEdit tab bar showing colored dots in front of specifications that are contained in a single opened file

## Hierarchy

Each specification document has its own object structure which is shown in the navigator tab.



ReqEdit displaying an opened ReqIF file, navigator on the left side is highlighted

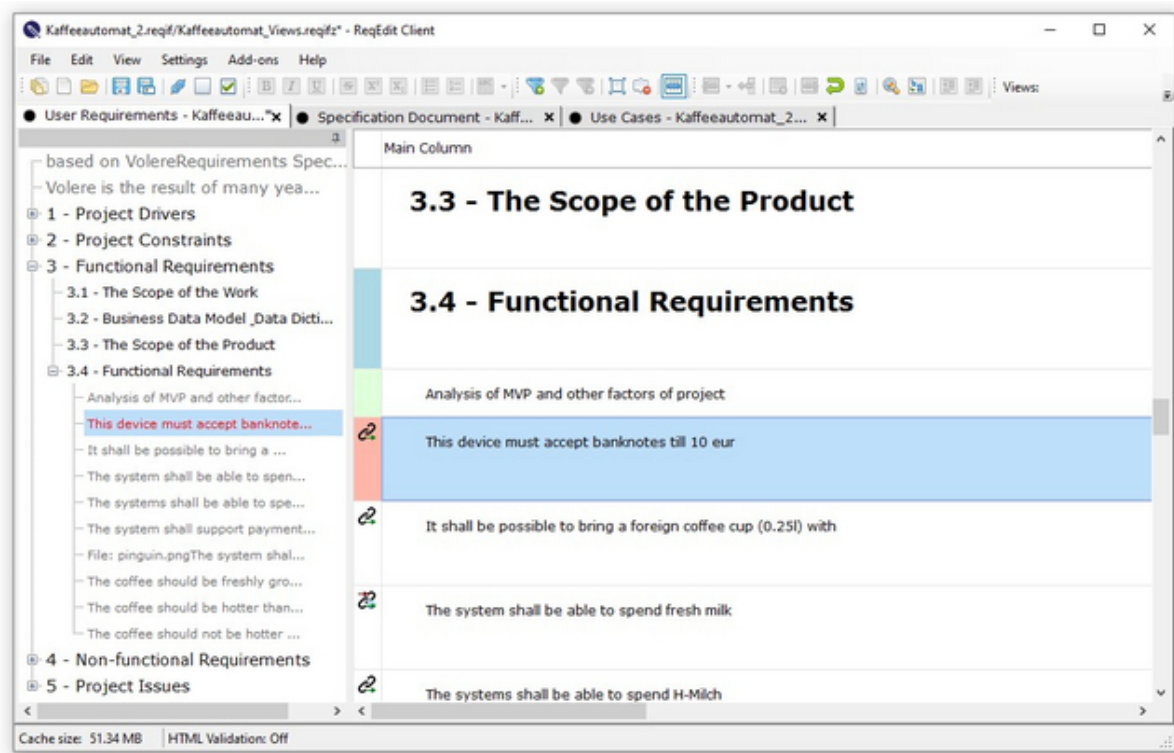
The navigator can be used to quickly jump to a specific section in the specification document.

## Numbering

Automatically generated for each ReqIF.ChapterName which are used as headlines. Depth is determined by child objects.

# Objects

Each row in the main content area is an object that has a Main Content and additional attributes. Objects are displayed as follows



ReqEdit displaying different types of requirement object states from top to bottom: not changed (white), edited and saved (blue), new not saved (green), deleted (red), with links (link icon, in, out, external)

## Status indicator

First column of the grid is a **frozen column**, which means that the user will always see the column, even if the document will be scrolled horizontally.

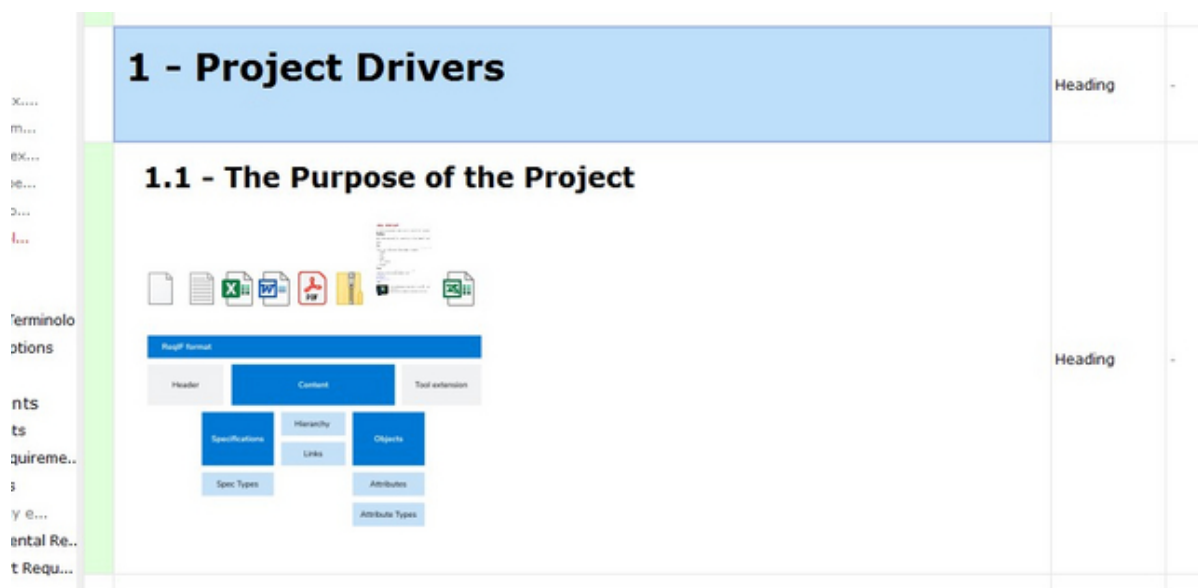
Displays the following states:

- unchanged – marked with white color
- edited – marked with light green
- edited and saved – marked with light blue

- links - marked with link icon
  - internal links
  - external links
    - \* URI / OSLC
    - \* Inward / Outward
- red - soft deleted (can be recovered)

More about Editing objects you can read [3]here.

## Attachments



ReqEdit displaying attachment previews of an object, file icons and preview images

Double-click on the icon. The attached file will be opened by the installed applications on the machine.

## Attributes

Object attributes are displayed as columns inside the data grid. The default column layout starts with Main Column then the rest of the object attributes defined in the specification.

**By default all attributes are displayed in the specification as texts**

## Main Column

Displays the the main ReqIF attributes: ReqIF.ChapterName, ReqIF.Name, ReqIF.Text as a single cell where

**ReqIF.ChapterName** - is displayed as Headline and will be auto numbered, displayed in the navigator

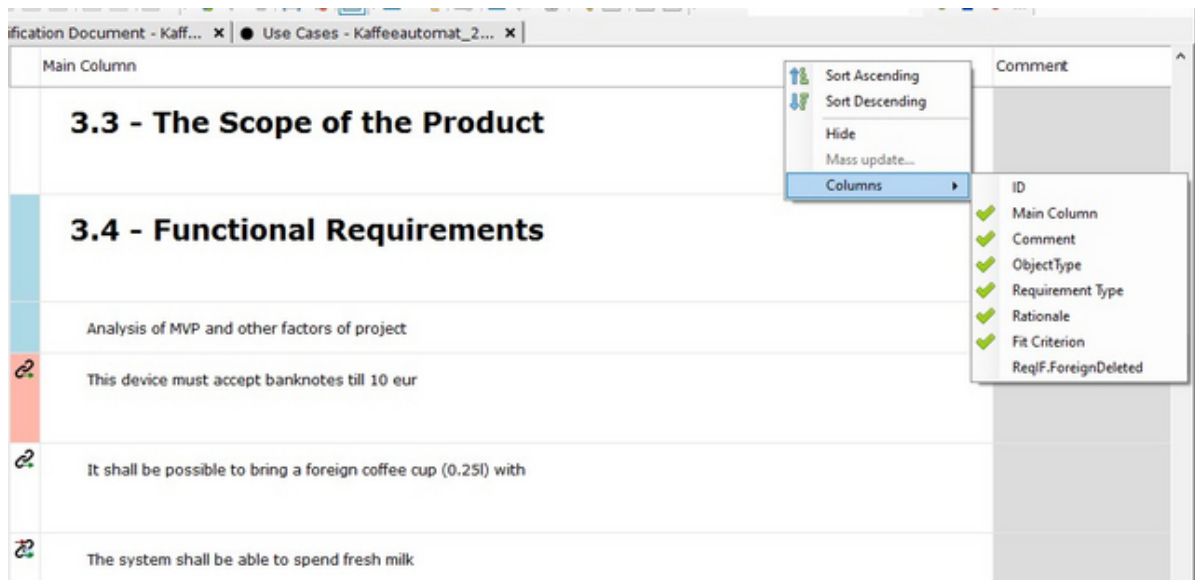
**ReqIF.Name** - displayed in the content area as text

**ReqIF.Text** - displayed in the content area as text

The main column rendering can be customized in the Settings > Document menu

## Attribute columns

All columns can be set hidden / visible by right clicking on the column name row.



ReqEdit column management menu displayed by right clicking anywhere on column names

Attributes used in the current specification document can be displayed by opening Setting > Document and selecting the Attributes tab.

Related topics:

- [4]Filtering and sorting
- [5]Views

1. <https://documentation.reqteam.com/reqif-requirements-format/>
2. <https://documentation.reqteam.com/reqif-requirements-format/>
3. <https://documentation.reqteam.com/edit-reqif-requirement-files/#Objects>
4. <https://documentation.reqteam.com/filtering-searching-and-sorting/>
5. <https://documentation.reqteam.com/view-manager/>

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## Edit ReqIF requirement files (2021-07-22 15:32)

<https://youtu.be/La-70CBGDno>

## Why ReqIF files?

Requirement Interchange Format is the de facto standard for lossless requirement data exchange for any industry.

**ReqIF simplifies the workflow of requirements exchange between suppliers and vendors in all industries. Mainly driven by the automotive industry.**

ReqEdit was built from the ground up to aid the participants of the supply-chain to quickly use ReqIF files without the need for complex ALM/PLM software solutions. This is becoming more important with the digital transformation in more and more industries.

ReqIF based interchange offers seamless integration of supply chains in all industries making collaboration more standardized and efficient.

ReqEdit is an easy tool for ReqIF editing. Creating, comparing and merging requirements and specification documents with powerfull add-ons.

### **Large companies rely on lossless data exchange**

ReqIF format simplifies and streamlines the data exchange of requirements between companies or departments and also on the management level. ReqEdit has multiple licensing models to support corporate environments and use cases.

### **Medium or small size companies needs cost effective solutions to participate in the supply-chain**

ReqEdit is available as a standalone application. No other dependency is required. Cost effective solution for processing ReqIF requirement files.

## ReqIF file structure

ReqEdit follows ReqIF standard on all levels. It will display contents of ReqIF files from structural to attribute definitions. More details you can find [\[1\]here](#).

## **ReqIF format**

### **Attribute Types**

atomic data types: boolean, date, enumeration, int, float, string, xhtml

### **Attributes**

uses the basic attribute type definitions with optional restrictions: min, max, length, can be defined for objects and specifications also

### **Object types**

collection of attribute types that are grouped together

### **Objects**

uses a specific object type and has values for each attribute

### **Values**

value objects for attributes of objects or specifications

### **Specification Types**

a collection of object types and specification attributes

### **Specifications**

uses a single specification type

### **Hierarchy**

requirement object structure inside a specification

### **Relations**

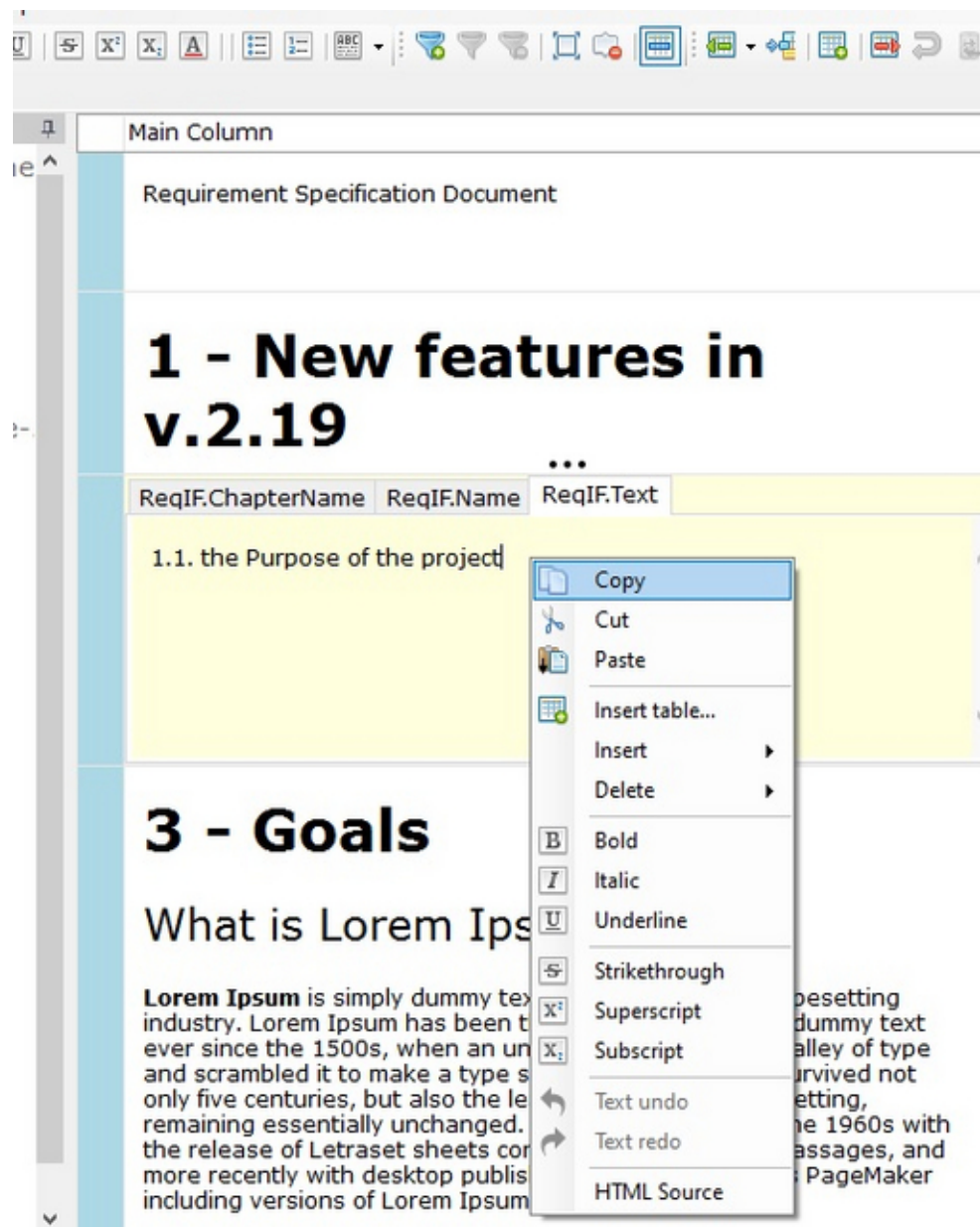
links between the objects

## Edit Objects

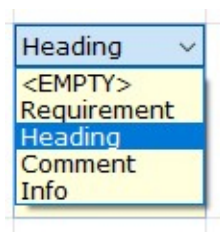
Double click on a cell to edit the content. An inline editor appears for XHTML attributes. For other data types appear corresponding checkboxes or date pickers or single inputs.

To close inline editing click on any other cell.

Use the quick action icons or the right-click menu for text formatting and XHTML content editing.



ReqEdit in inline editing mode, editing main column ReqIF.Text attribute



Single valued enumeration will show a dropdown selector

<input type="checkbox"/> Simple	H
<input checked="" type="checkbox"/> Complex	
<input type="checkbox"/> Multi domain	
<input type="checkbox"/> Functional	
<input type="checkbox"/> Restriction	

Simple

Multivalued enumeration attributes are displayed as a list of checkboxes

☒ 8/ 3/2021

August 2021

Mon	Tue	Wed	Thu	Fri	Sat	Sun
26	27	28	29	30	31	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

Today: 8/3/2021

Dates will show a datepicker

string

String types editing as simple text

Applicable	F
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	

Boolean values editing as checkboxes

Test cases	F
11110	

Integer and float types will only store numerical values

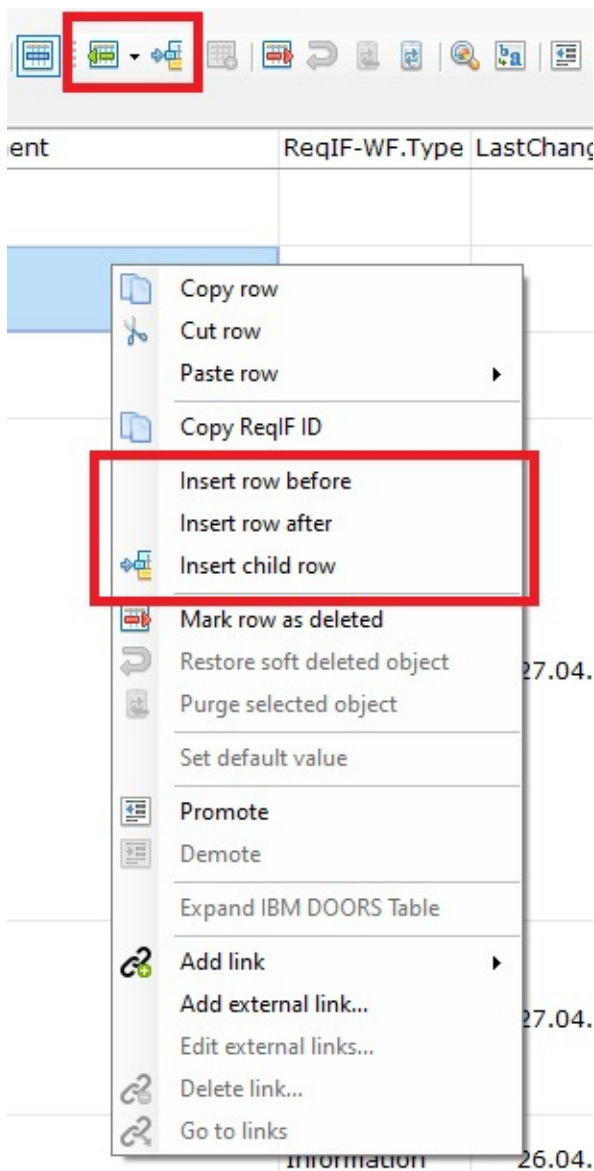
## Insert rows

New rows can be created on the same level or as children to the current row.

For inserting a new row at the same level of the current row, right-click on a cell and choose where to insert it. A new generic object is displayed as an empty line or with default values.

Each spec object in ReqEdit has the same attributes (columns) in a document. Different object types are not supported in a single document.

Insert child row creates a new row in the table, below the selected line. It is a child in the tree hierarchy. A new empty line will appear. In case it is edited it will look like this:



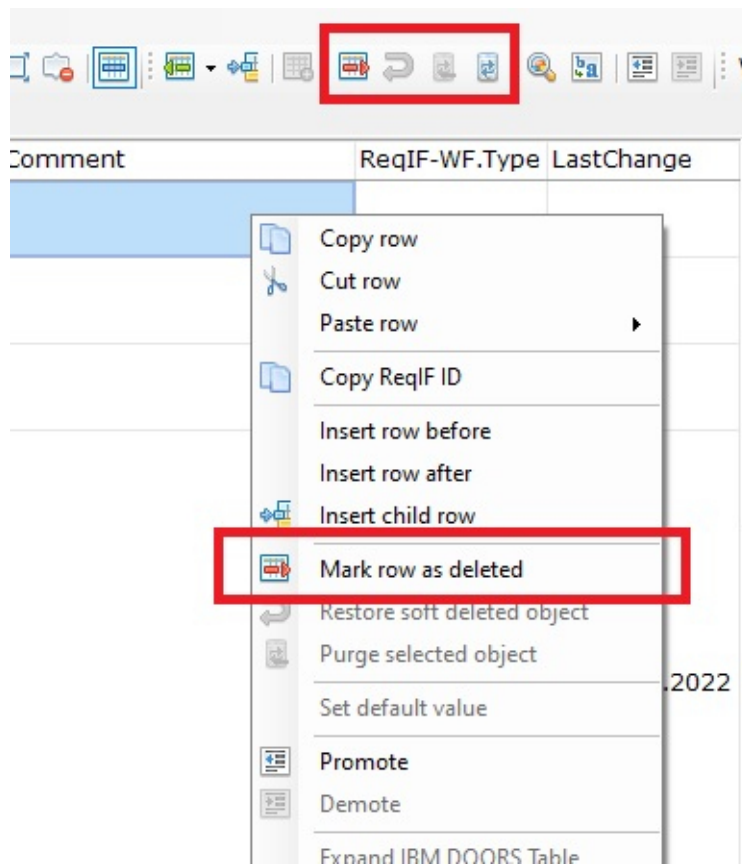
ReqEdit displaying context menu, highlighted are the insert object menu items and the top quick action icons

## Delete rows

**ReqEdit uses soft-deletions, delete will not remove objects from the ReqIF file.**

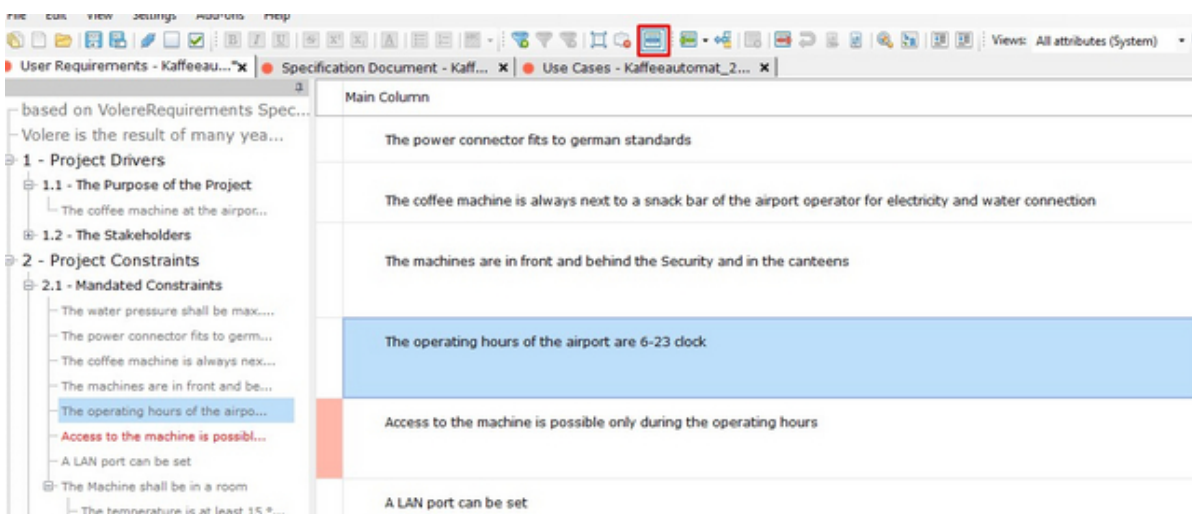
Delete the selected row by

- selecting the row and pressing DEL or
- right-click menu or
- the quick action icons.



ReqEdit displaying context menu, highlighted are the delete menu items

This function places the removed row into a deleted state.



ReqEdit displaying deleted rows with red status indicator, highlighted is the Show deleted objects icon in the top bar

## Restoring deleted rows

To restore a deleted row select it and click on the „Restore deleted rows” button from the toolbar or right-click on the object and select the Restore menu item.

## PURGE (definitive deletion) of deleted objects

Use PURGE to remove objects, marked as deleted, with all attachments from a ReqIF file. Purge function is on the delete toolbars and right-click menus.

Once purged, objects cannot be recovered. Auto-backup feature will have 10 snapshots for recovery.

To clean up deleted rows:

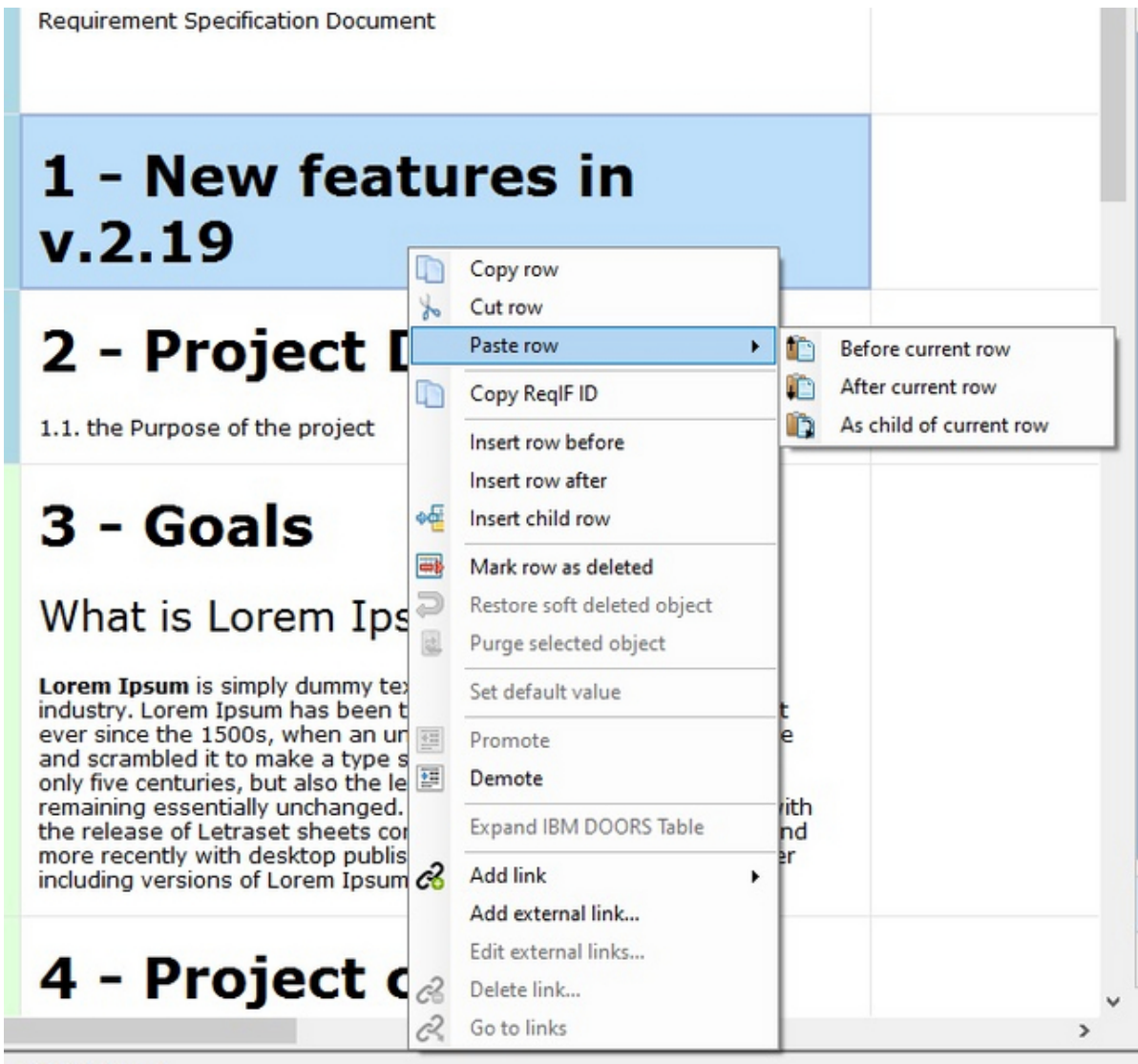
- **purge a single deleted row** or
- **purge all** the deleted rows in the entire specification document.

## Copy and move rows

Use cut-copy-paste of existing row to create new one. Right-click the desired location and paste the copied object before / after or as a child row of another row.

**If a copied row contains links, on paste, a notification asks what to do with the existing links.**

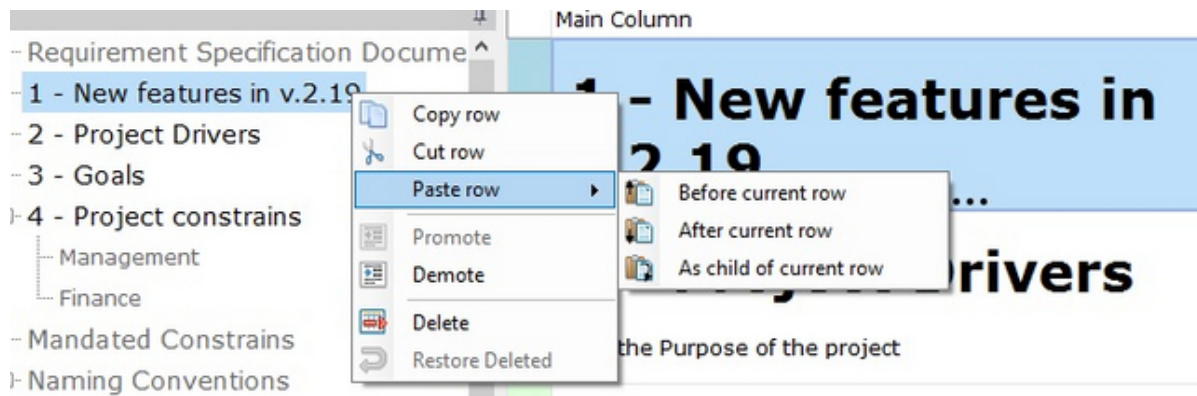
**If the row has child elements, these will also be copied or moved.**



ReqEdit copy-paste menu items

## Copy-paste in the Navigator

Use right-click menu in the object navigator to copy-paste objects/rows.



ReqEdit allows copy-paste in the navigator by right clicking the tree menu items.

If an object contains links to or from other objects, the links are copied too. A pop up window asks for copying the links or not.

## Navigator drag-and-drop

Use drag-and-drop to move objects

Object can be created by CTRL+Drag and release at the desired location

## Editing Hierarchy

To change the hierarchy of objects use the **promote** and **demote** functions. They are in the quick action icons, and in right-click context menus.



Promote / demote objects with right-click menu

## Promoting

Will move the object one level up in the hierarchy. If using the drag-and-drop way for promoting, an object/ row can be moved more levels up or down.

Note: can be moved only one object at once.

## Demoting

Move the object one level down as children in the hierarchy

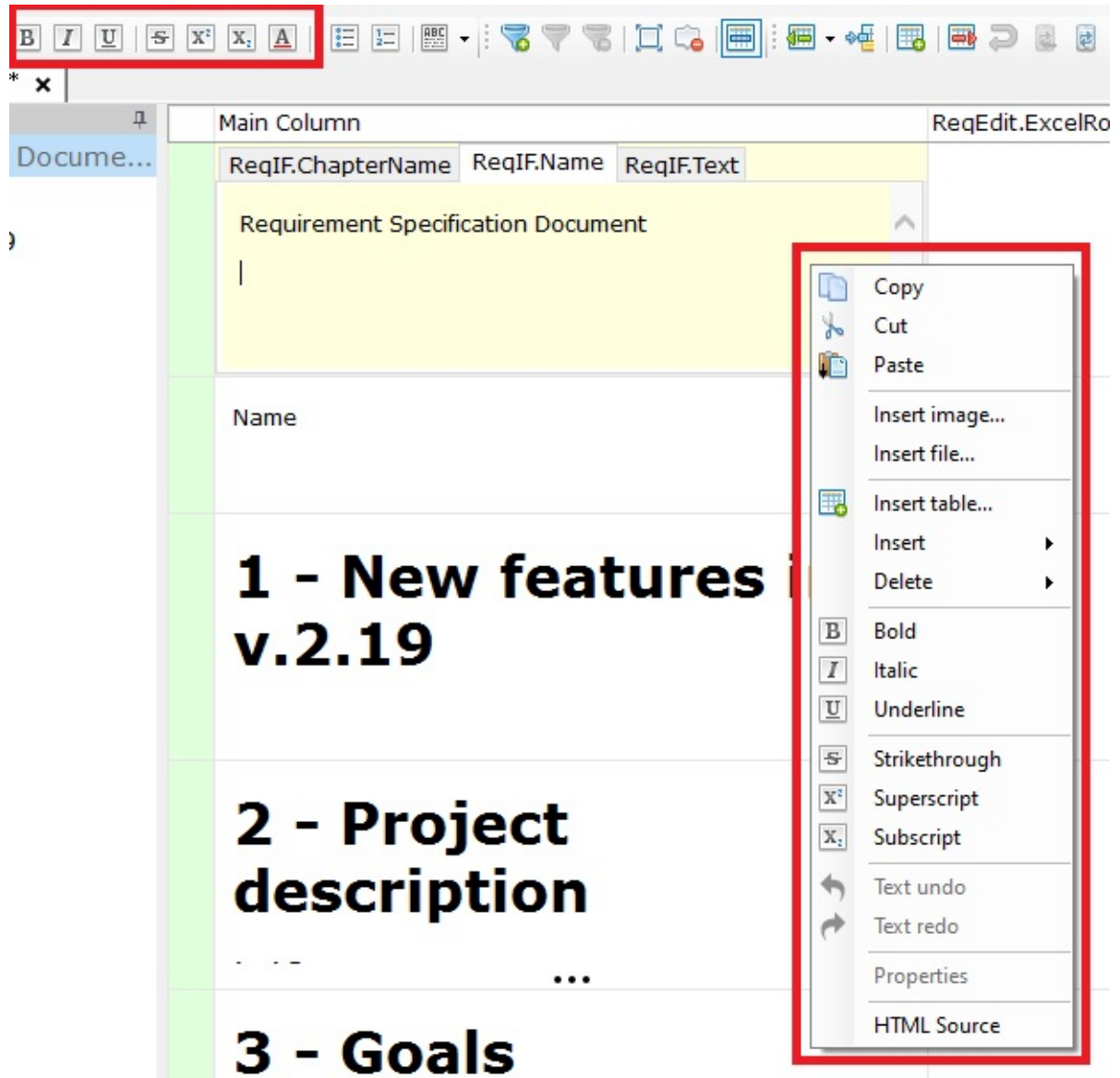
Promote or demote a parent object include promote or demote the object together with its child objects.

## Main column

Main column is a combined cell displaying the most important ReqIF attributes: ReqIF.ChapterName, ReqIF.Name, ReqIF.Text

In this cell, the main fields of the document can be edited at once. These fields are XHTML type attributes.

Double click the main column of an object displays an inline XHTML editor with 3 tabs. One tab for each attribute.



ReqEdit displaying the inline editor of the main column where ReqIF.Text is selected, highlighted are the editing context menu and toolbar

The cell content editing menu Copy/Cut/Paste function refers to copy/cut/paste texts and pictures from the same document and external documents, too. (word file, excel spreadsheet cells, screenshots, images). The function converts external data format into ReqIF supported one. (text formatting doesn't see, image cannot be downloaded). File format must be ReqIFz to be able to save the images, as attachments.

*Note:* Depending on corporate internet access, downloading copied images could be prevented by firewalls. ReqEdit will remove some formatings due to limitations of XHTML

inside of the ReqIF format.

Copy-Cut-Paste the text of cells of the same ReqIFz file has no limitations regarding the possibilities shown in the right click menu. (Bold, underline, italic, strikethrough, subscript, superscript)

Copy-Cut-Paste of tables is with visible borders of cells. ReqEdit will add automatically borders to tables, even there was no set one before.

*Note for experts with HTML knowledge:* The HTML Source (experimental) menu item allows to edit and change the HTML source code of content of a cell.

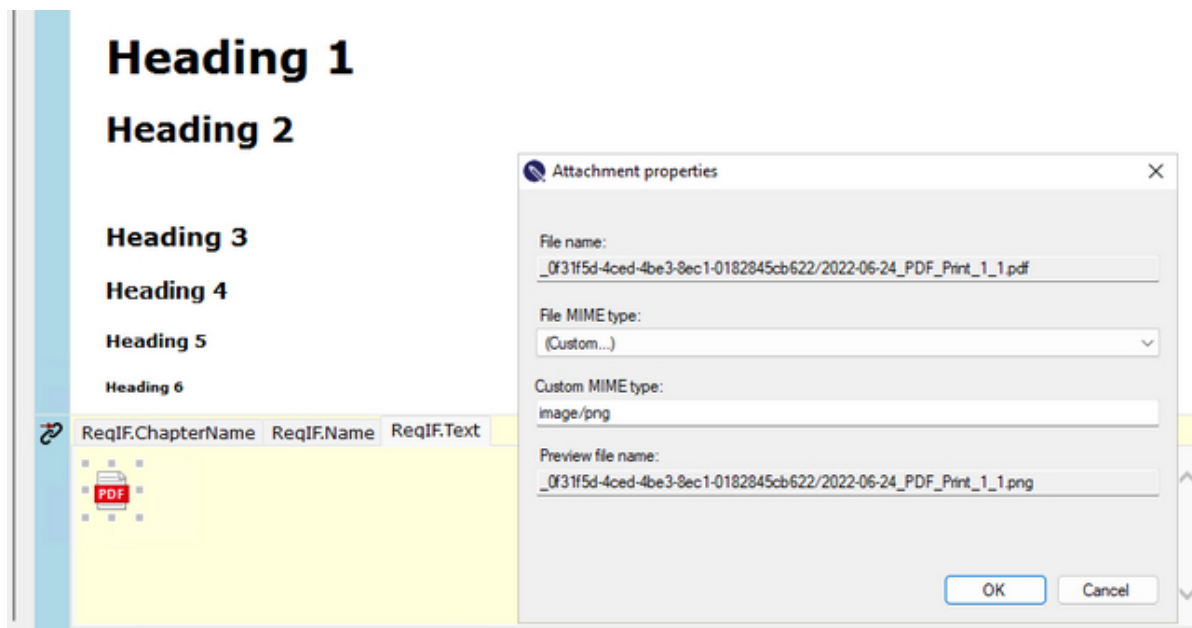
### **Limitations on content editing Copy-Cut-Paste function:**

- Cell formatting settings in excel spreadsheet
- Attached objects from Wordpad (RTF documents)
- Images can be copy-paste only in ReqIFz files
- If the image/attachment cannot be copied, only file name of the preview images are displayed.

Recommendation: Before copy-cut content from an external source, save file to have a backup copy if the copied content is ReqIF invalid.

### **Properties**

Properties menu gives informations about the attachments / inserted files in main column cells. Right click on the inserted file, **Properties**



Right click menu in editor mode shows Properties window

## HTML Source (experimental)

This function of the right click menu of content editor is recommended to expert users. This function allows to view and change the html source code of the attribute/cell.

*Note:* Currently the changes will not be validated at inserting time. So be very careful at any change!

## Columns

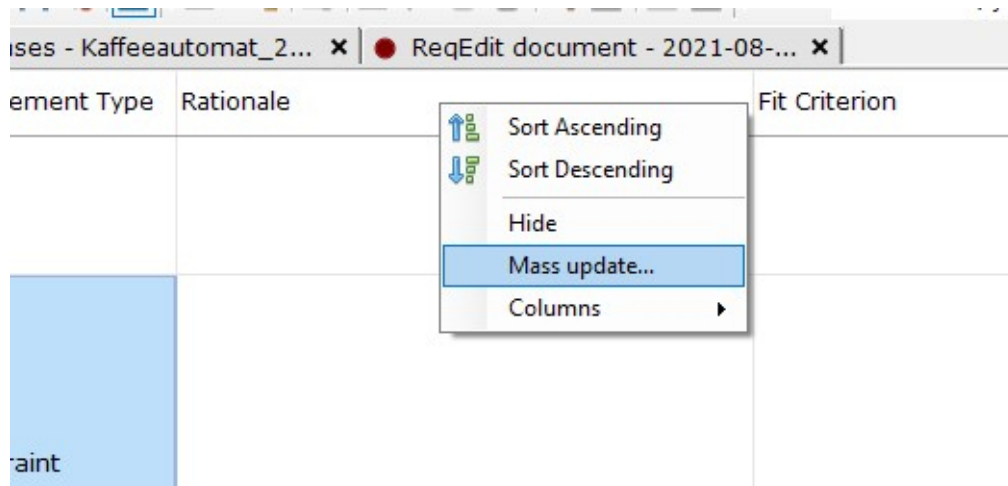
### Mass update of attributes

Update multiple rows with a specific attribute value.

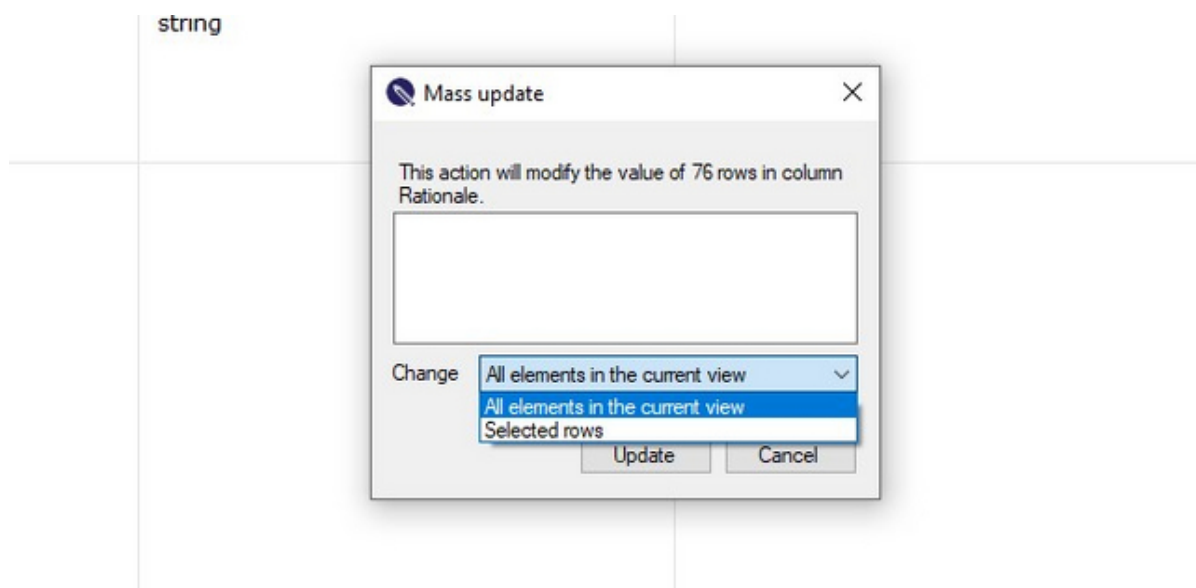
**The mass update function is designed to be used together with the filtering.** This way, a set of objects can be selected according to specific criteria and updated at the same time.

The mass update function is not available for the main column

To use Mass update function first define a filter to select all the rows you want to change. Then right-click on the column header. Select Mass update....A popup window appears.



ReqEdit displaying the mass update menu item by right clicking the column header



Mass update popup window showing options

Mass update changes all values in the current view for the column.

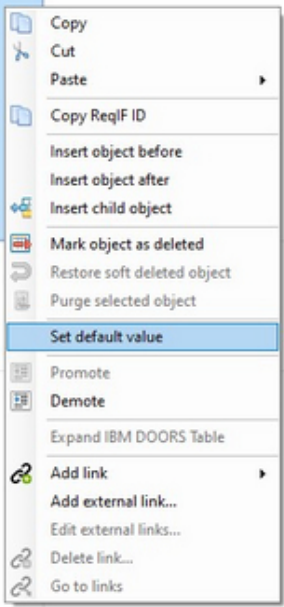
To change individual cells, select multiple cells from the same column (either Ctrl + click or Shift + click). Right-click at the column heading to trigger the mass change.

## Default values

Each attribute can have a default value defined in the [2]Document settings. Selecting an attribute and access the “Attribute editor”.

To set back a cells default value for each attribute of a row, right-click the corresponding cell and select the “Set default value”.

	ObjectType	Requirement Type	Rationale	Fit Criterion
	Info	-		
analysis. ents We also	Info	Constraint		
ns from				
sers and				
	Heading	-		



## Attachments

ReqIF Archive .reqifz files supports file attachments for objects.

**Only XHTML attributes can have attachments inside .reqifz files**

**Image attachments:**

png, bmp, jpg, gif, ico, wmf,

**File attachments:**

any file type is supported

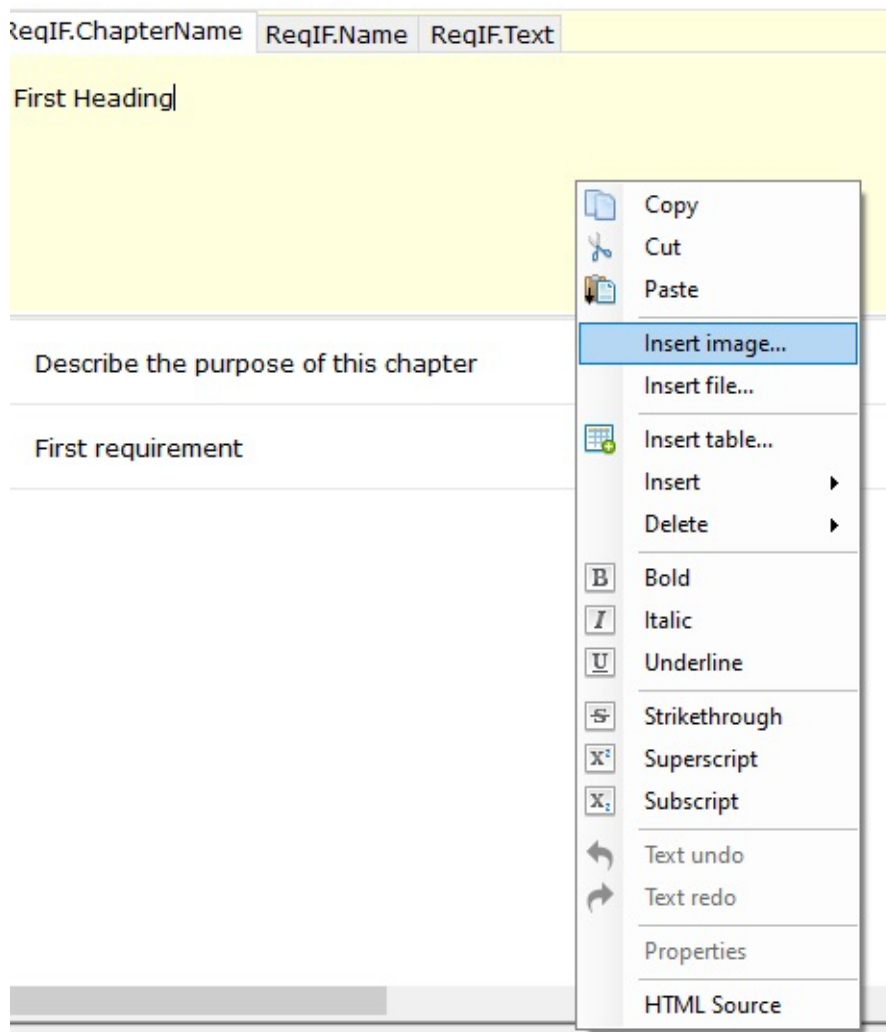
pdf, doc, docx, xls, xlsx ...

## Opening file attachments

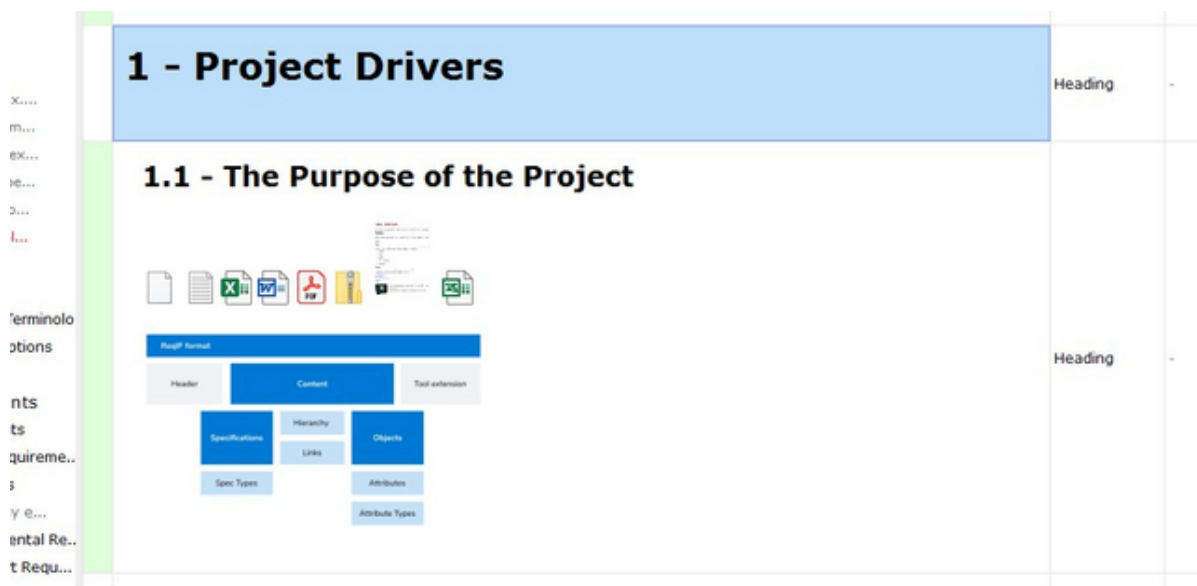
Double-click on the file's icon. The attached file is opened by the installed applications on the machine.

## Insert file attachments

To add an attachment right-click the XHTML inline editor area and select **Insert image** or **Insert file**



ReqEdit displaying context menu, highlighted is the 'Insert image' item




ReqEdit displaying attachment previews of an object, contains file icons and preview

images

## Tables

XHTML attributes by definition can have tables. All tables are rendered inside cells.



The screenshot shows the ReqEdit interface. On the left is a sidebar with a list of items. The main area displays a table within an XHTML attribute. The table has five columns: Name, Function, Values, Restrictions, and Risk. It contains two rows of data. To the right of the table is a 'Comment' column with a hyphen.

The coffee machine at the airport terminal:					
Mission: make several coffees (with different ingredients) after payment available					
Name	Function	Values	Restrictions	Risk	Comment
Power management	Power ON	boolean	none	major	
Stability control	Handling	float	1 rule	minor	

ReqEdit displaying tables inside XHTML attributes

To edit XHTML table structure use the inline editor right-click menu.

## Save ReqIF files

If your file is a multi-document file, saving one of the documents will also save the changes made in the other documents of the ReqIF file.

**NOTE: Changes on linked documents (e.g. Images or Word, Excel) are not detected. Make a content change to trigger update and enable saving.**

## Save as

Save the currently edited file as a new filename. Contents will be identical to the original one. Can convert ReqIF into ReqIFz.

Note: Actual file is closed and the file in new saved format will be opened.

## Close files

ReqEdit can only close saved files. If there are any unsaved changes, a notification displays and asks to save files before closing.

Use **CLOSE ALL** to clean up the editor.

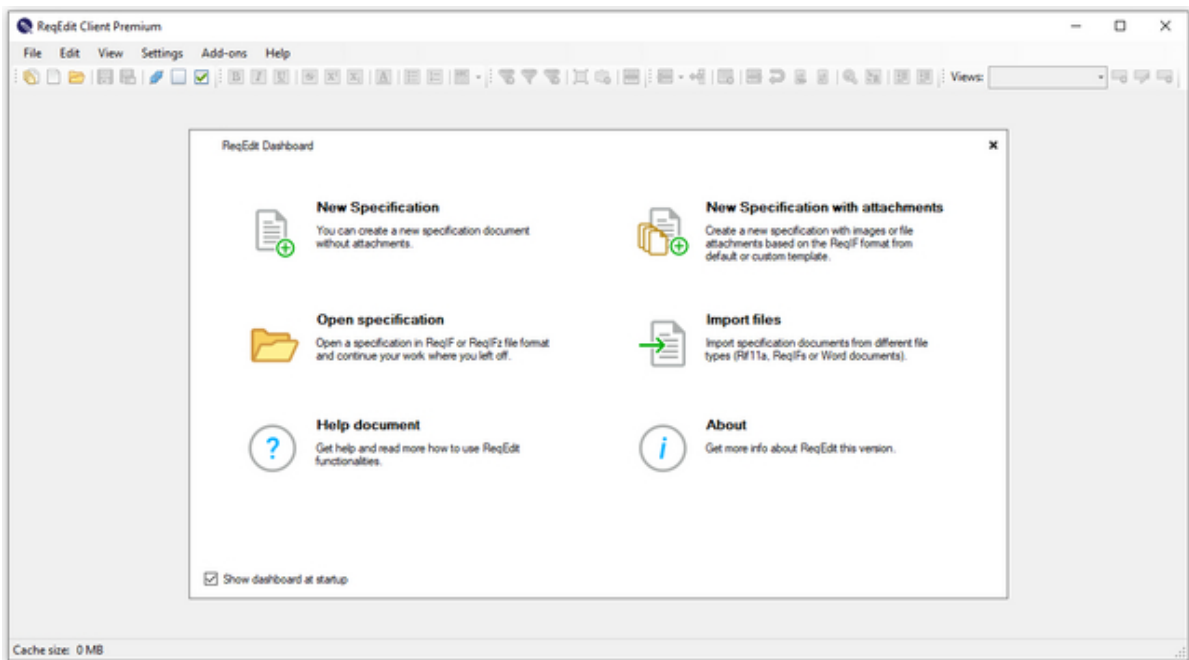
1. <https://documentation.reqteam.com/reqif-requirements-format/>
  2. <https://documentation.reqteam.com/document-settings/#Attribute-types>
- 

## User Interface (2021-07-26 10:16)

### Overview

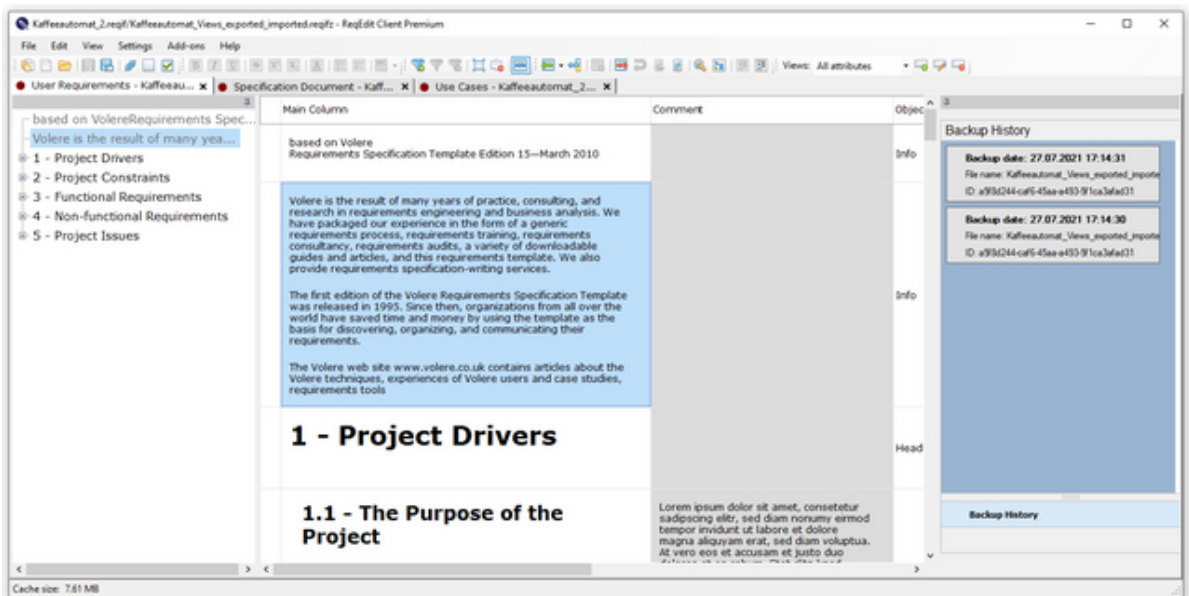
The look and feel of the application is similar to any classic Windows application. It has a main menu at the top, function icon groups that can be rearranged, main content area and a status bar at the bottom.

At first run a quick action dashboard is shown.



ReqEdit start screen showing the dashboard

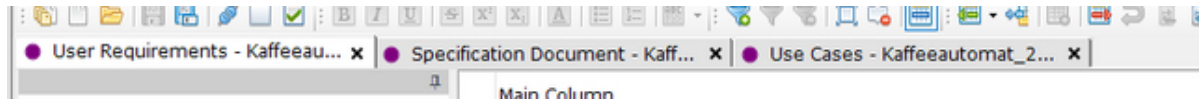
After opening a ReqIF file, the contents will be shown in the main user interface. If the ReqIF contains multiple specifications it will be displayed as color coded tabs.



ReqEdit showing a ReqIF file, from left to right: navigator panel, requirements and auto-backup panel

## Specification tabs

Opening a ReqIF file will display all the specifications as tabs. Same color tabs are from a single ReqIF or ReqIF Archive file. The specification title is displayed as the tab title.



ReqEdit displaying specifications inside a ReqIF file in color coded tabs

Keeping the mouse over a tab will display more info of the specification like: file location, document id, and so on.

### Closing opened files

Close any tab by pressing the **X** of the tab or by pressing CTRL+W , if there are any unsaved changes a popup will ask to save the specification.

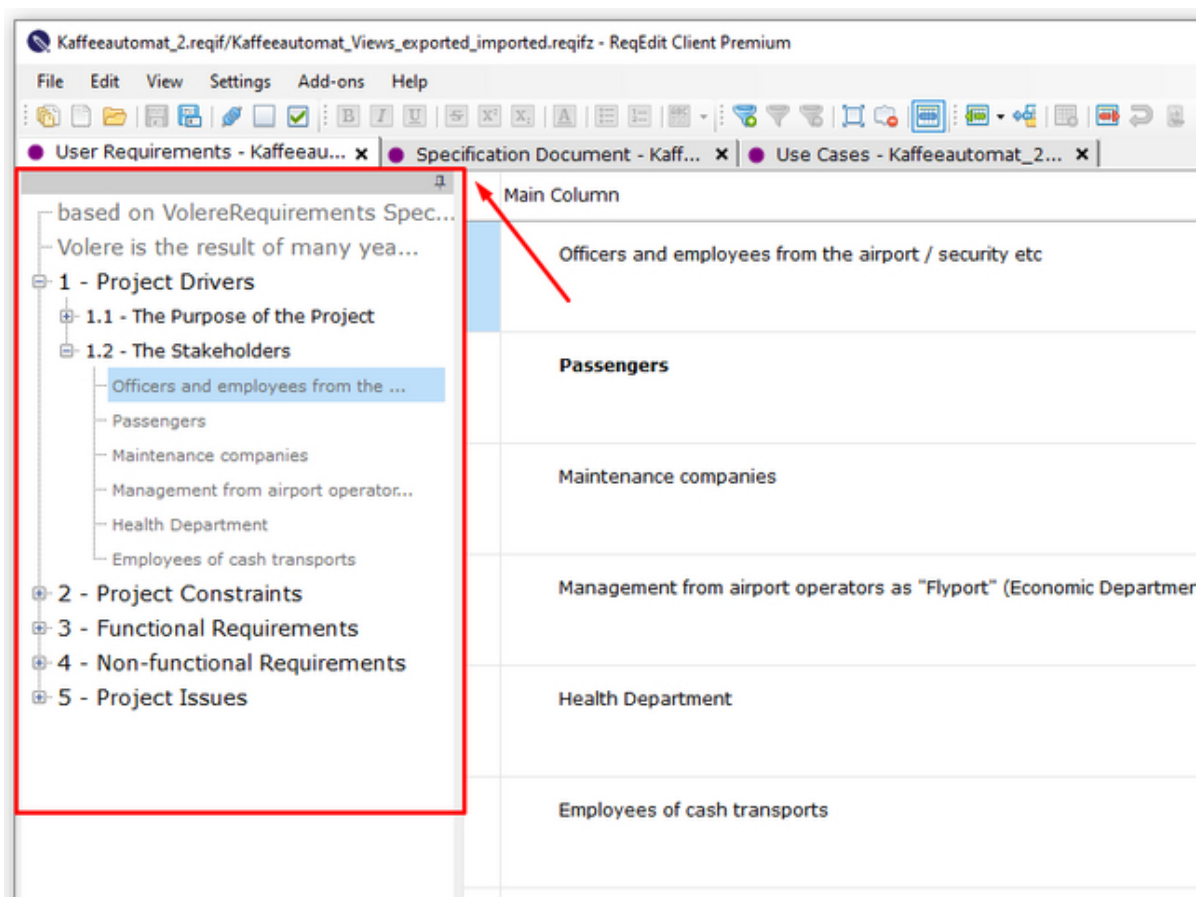
Closing all opened specifications of a ReqIF file by accessing **File > Close All** or by pressing CTRL+SHIFT+W, if there are any unsaved changes a popup will ask for confirmation.

## Navigator

Specification headlines are shown as a tree menu on the left panel. Numbering is added automatically to aid navigation. Clicking on the items will jump to the same requirement in the content area.

### Show / Hide Navigator

Navigator can be toggled by clicking the pin icon.

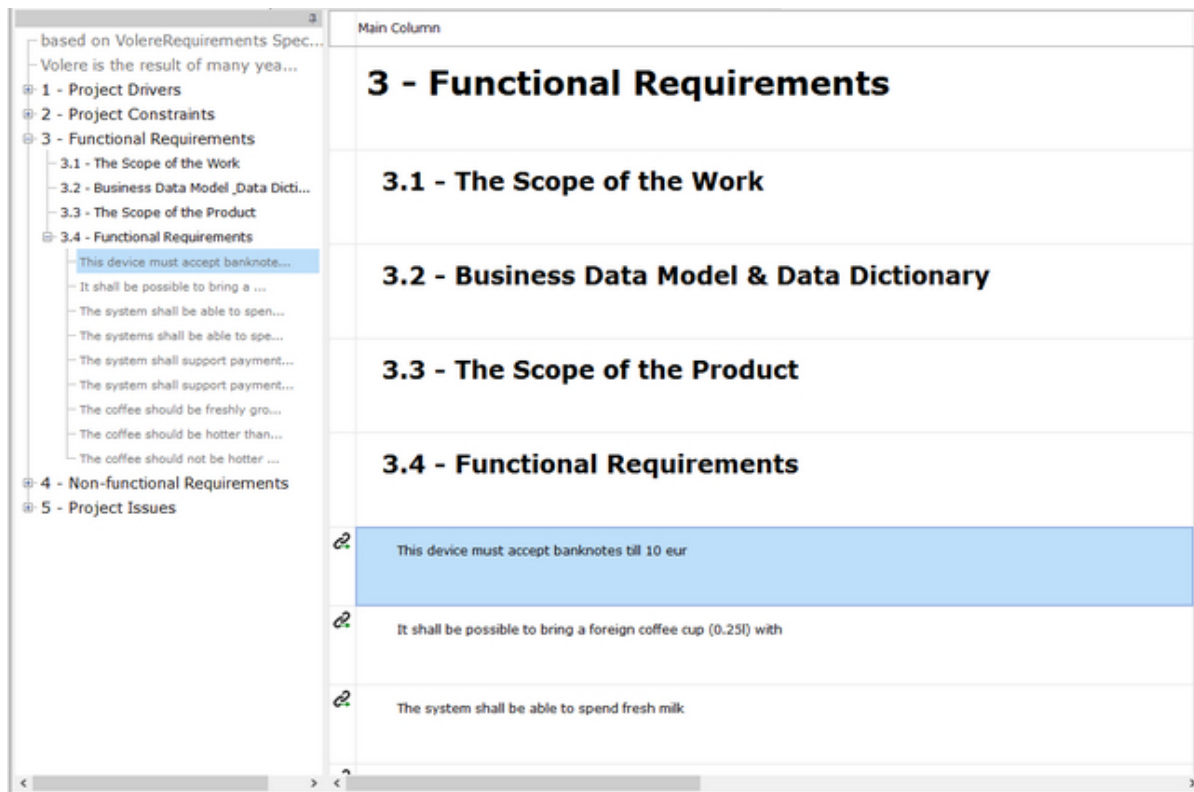


ReqEdit navigator pane on the left showing requirements hierarchy as a tree menu

## Requirement Numbering

Requirements with (ReqIF.ChapterName) headlines are shown in a tree menu structure, numbered by the position in the hierarchy. The numbering is automatically updated on each change of the requirements, new additions or deletions will affect this.

The levels of the menu represents sub items in the spec hierarchy. This is visible in the content as sub numbering of a main headline, all the content remains on a single level in the table.



ReqEdit displaying a specification where the same requirement is selected in the navigator and the content area

## Content

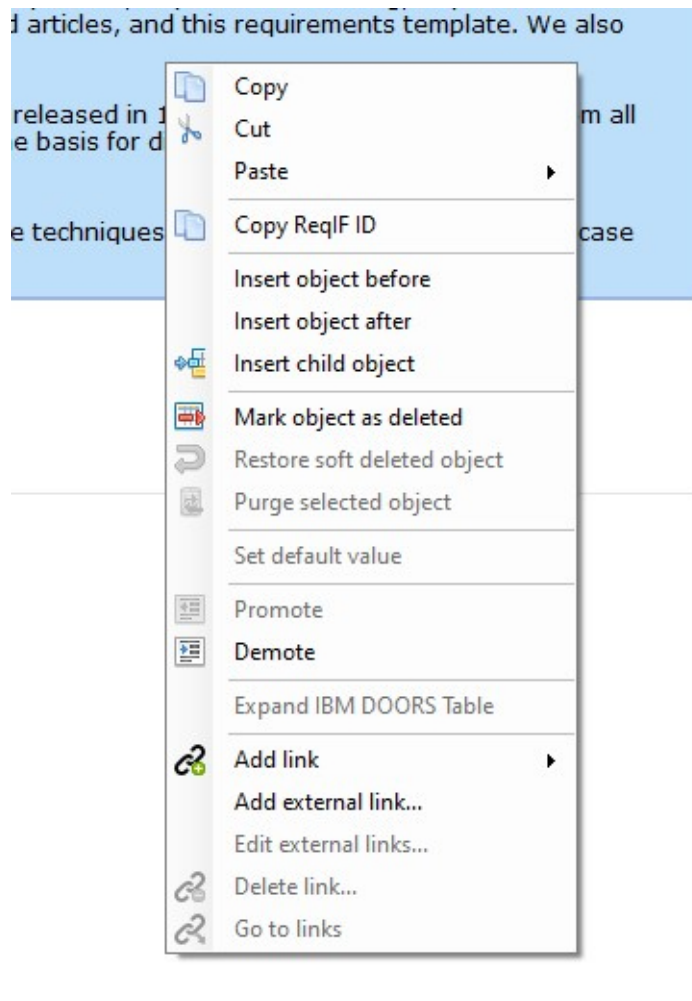
Requirements are shown in the middle as a table, where the **Main Column** is a multi content field and the other columns are the associated metadata.

## The Object menu (Right-click)

Right clicking any object (row) in the content area, displays the context menu. Contains editing functions like: creating, cut-copy-pasting, deleting, restoring, purging objects. Hierarchical editing si possible by promote / demote menu items.

Manage relations between objects by the lower menu items: Add, Edit, Delete link or Go to link targets.

Get the object ReqIF ID using the Copy ReqIF ID menu item.



## Main Column

Main Column is the most important content of the specification. It has the default value of the combination of **headline** (ReqIF.ChapterName), **description** (ReqIF.Name), **xhtml content** (ReqIF.text). If all there attributes are present it will be displayed together in the same cell and the headline will have a number assigned to it.

The Main column content can be customized in the Document Settings panel

Main Column	ObjectType	Re
based on Volere Requirements Specification Template Edition 15—March 2010	Info	-
<p>Volere is the result of many years of practice, consulting, and research in requirements engineering and business analysis. We have packaged our experience in the form of a generic requirements process, requirements training, requirements consultancy, requirements audits, a variety of downloadable guides and articles, and this requirements template. We also provide requirements specification-writing services.</p> <p>The first edition of the Volere Requirements Specification Template was released in 1995. Since then, organizations from all over the world have saved time and money by using the template as the basis for discovering, organizing, and communicating their requirements.</p> <p>The Volere web site <a href="http://www.volere.co.uk">www.volere.co.uk</a> contains articles about the Volere techniques, experiences of Volere users and case studies, requirements tools</p>	Info	
<b>1 - Project Drivers</b>	Heading	
<b>1.1 - The Purpose of the Project</b>	Heading	

ReqEdit displaying a ReqIF file, main column is visible, highlighted is the column separator and a row separator

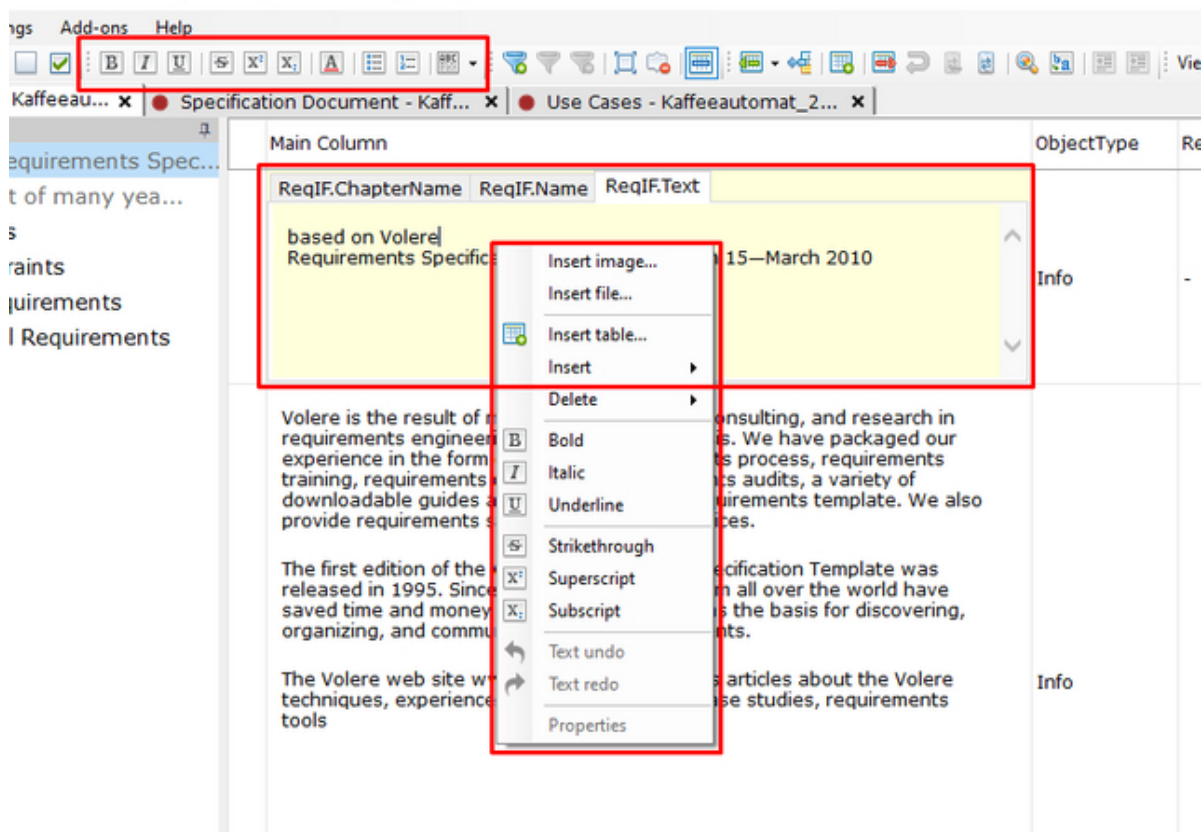
## Resizing columns or rows

Drag the column header separator bars or the row separator bars to resize the grid.

## Content editing

Double clicking on any object will enable the inline editor and activate the text formatting icon group. Right clicking the content will show a menu for adding attachments or tables and formatting the content.

To leave the inline editing click anywhere outside the yellow background.

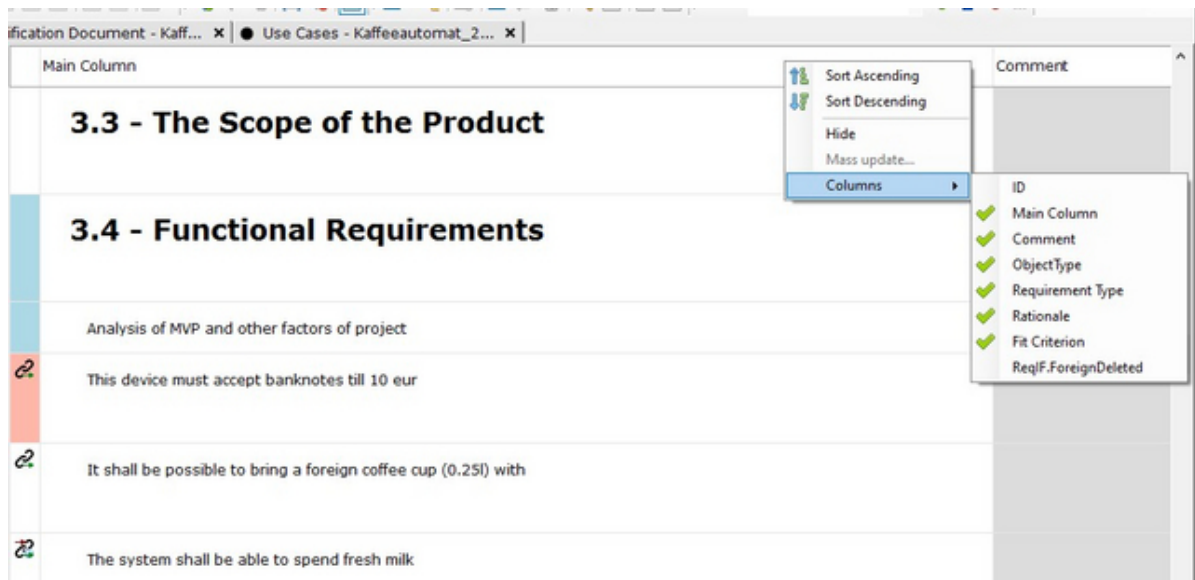


ReqEdit text content editor, icon group and right click menu

## Managing columns

Right clicking the column headers will display a menu, where the selected column or the other columns can be toggled visible or hidden.

If all the columns are hidden the View manager can reset the visibility back to a predefined state.

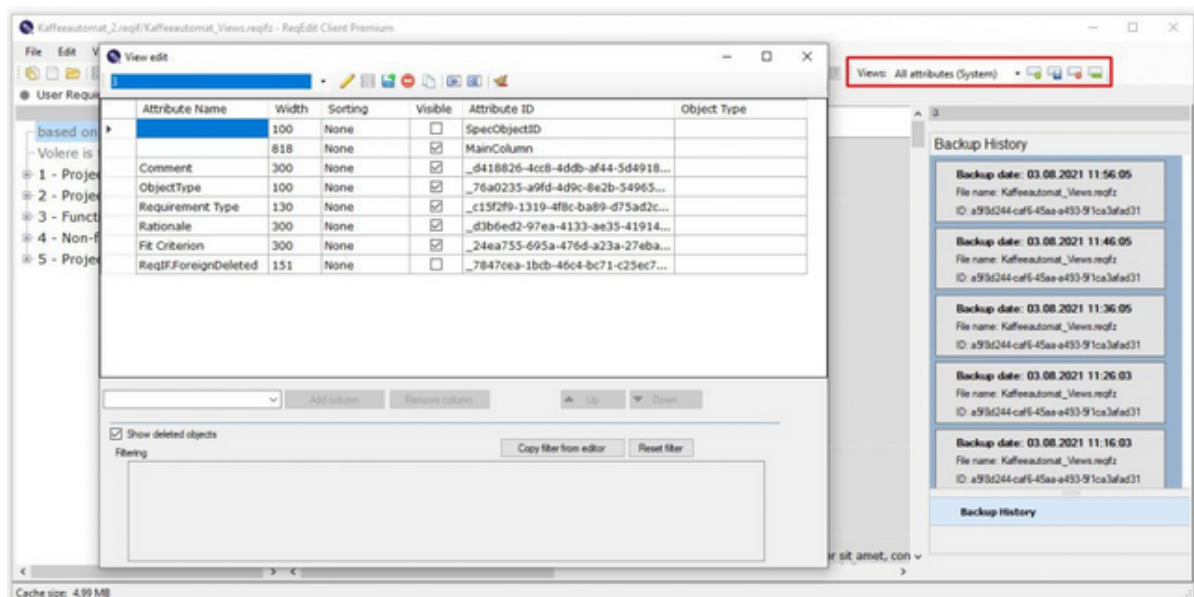


ReqEdit column management by right clicking the column header row

## Views

Views are visible column sets with optional custom sorting and filtering saved as presets. The view manager is located in the icon groups on the right side. The views are only for displaying the ReqIF contents in a more human friendly manner for large files with lots of metadata.

**The view presets are not stored in a ReqIF file, they can be exported and later imported from the local hard drive.**



ReqEdit displaying the view manager popup window

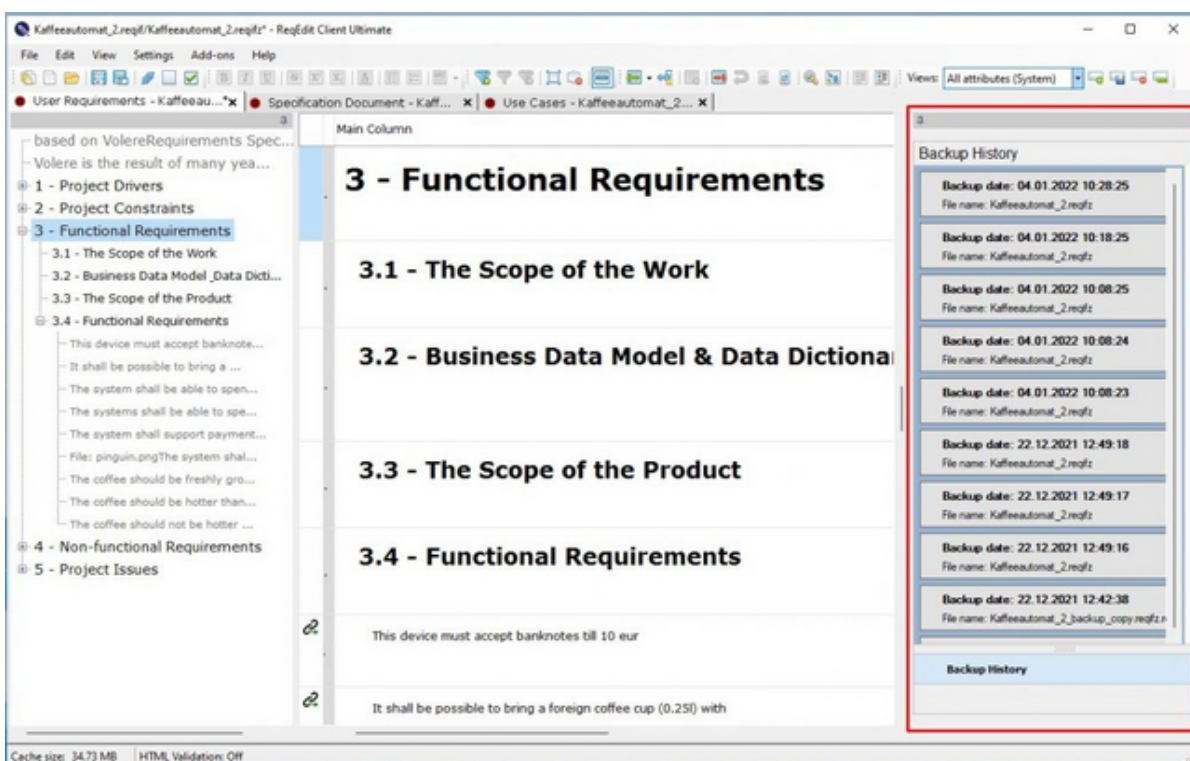
## Backups

ReqEdit offers an auto-backup feature which will create a snapshot of the current state of the opened files. Default setting is to create a backup every 10 minutes and rotating 10 backup files (the last will be deleted to have a max of 10 backups).

The backup settings can be changed in the **User Settings** panel

### Show / Hide Backups

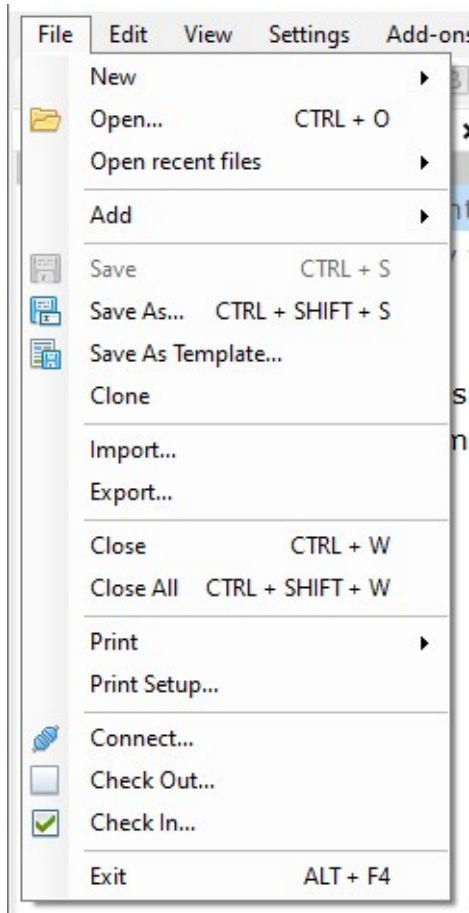
Backups can be toggled by clicking the pin icon in the title of the panel



ReqEdit displaying a ReqIF file, highlighted is the auto-backup panel

## Menus

## File



ReqEdit File menu

### New

Create new a new ReqIF file **.reqif** or an archive with attachments as **.reqifz**

### ReqIF (.reqif)

No attachments

CTRL+N

## ReqIF Archive (.reqifz)

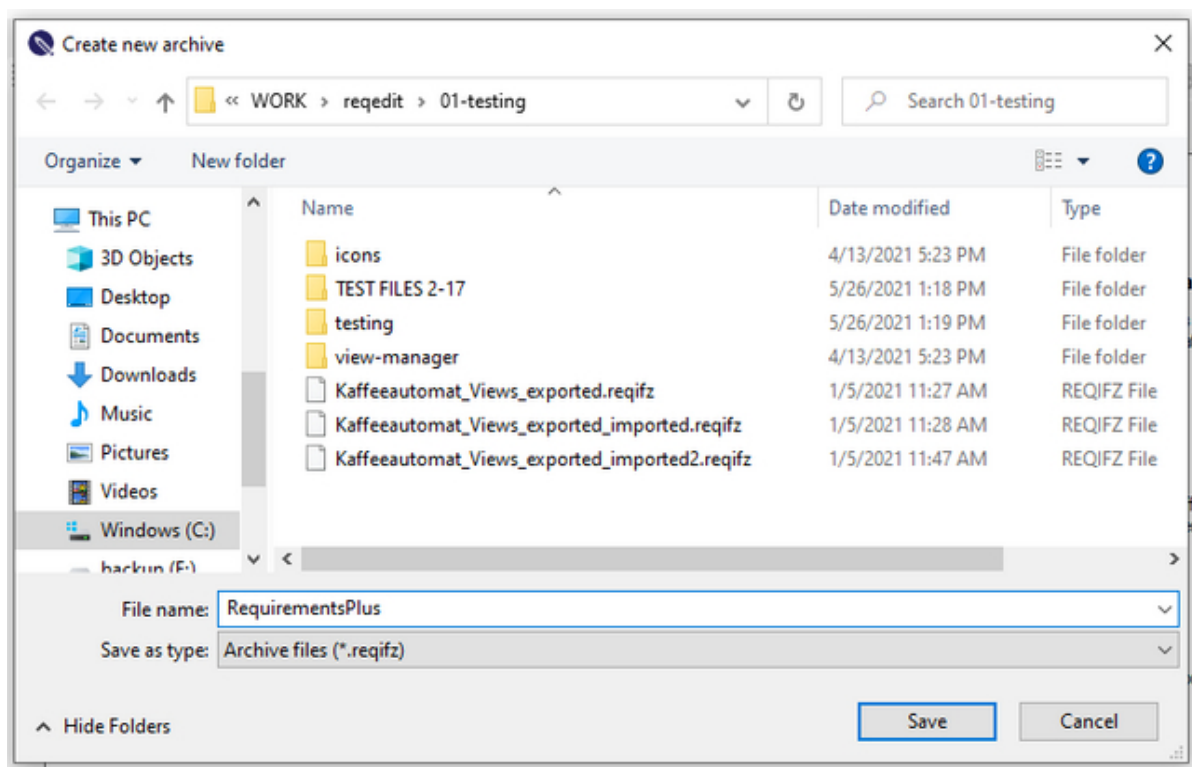
Can have attachments

CTRL+SHIFT+N

A template list will popup will ask for a specific template to use for the new file. For more information on templates, please read the **Templates** section.

## New Archive

ReqIF Archive supports attaching external images or files to any requirement. Creating a new archive will show a window asking for a filename.



ReqEdit creating a new ReqIF Archive, popup window asking for filename

## Open

By default, only **xml**, **rif**, **reqif**, **zip** and **reqifz** files can be selected

### **Add new document to current file**

Adds a new specification document to the currently active ReqIF file. Use this to add more than one specification to a single file.

### **Save**

Any change in the specifications will be displayed with asterisk \* in the tab.

**Changes to linked documents (e.g. Images or Word, Excel) will not be detected by the editor, a change needs to be made in the requirements in order to be able to Save**

### **Save**

Save the currently active file to disk

CTRL+S

### **Save As**

Save the active file under a new name

Keep all UUIDs

CTRL+SHIFT+S

## Save as template

Single document ReqIF files can be saved as a template and reused later

## Close

Opened specifications can be hidden by clicking the X in the tab bar, if there are unsaved changes a popup will ask for confirmation. **This is not removing the specification from the file.**

## Close All

Close all opened specifications, any unsaved change will notify the user. It will close all opened files.

## Import

Start an import wizard for **ReqIf 1.0.1** files

## Export

Start an [1]export wizard from **ReqIF 1.0.1** to **ReqIF compatibility mode** or **RIF 1.1 / RIF 1.1a** archive format.

## Print

Print the current specification Main Column or all visible columns.

## **Connect**

Requires ReqEdit file server

Will authenticate the current user and create a connection

## **Check out**

Requires ReqEdit file server

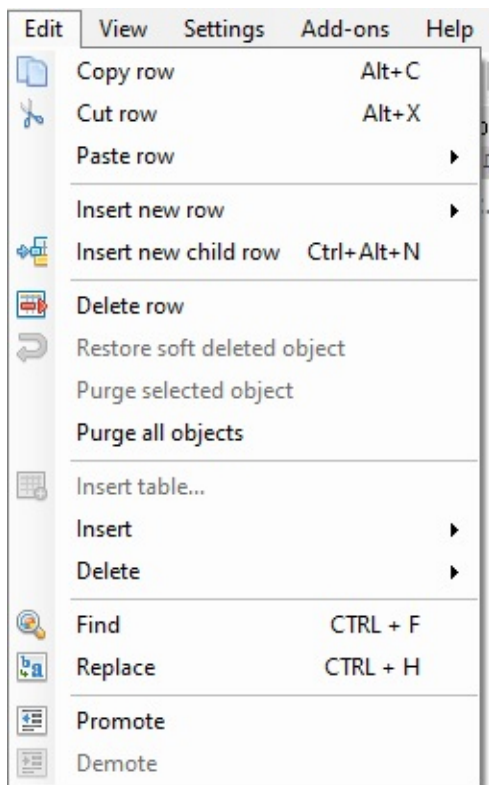
Lock the file and download for editing (other users that have permission to the same file cannot download it)

## **Check in**

Requires ReqEdit file server

Upload a file to the server. If the file was previously locked by the user it will become unlocked and can be edited by others as well.

## **Edit**



ReqEdit Edit menu

Editing objects and contents

### **Object / Requirement level editing**

Create before, after

Create child

Promote, demote

Delete (soft delete)

Restore deleted (soft deleted)

Purge (hard delete)

Cut/Copy/Paste

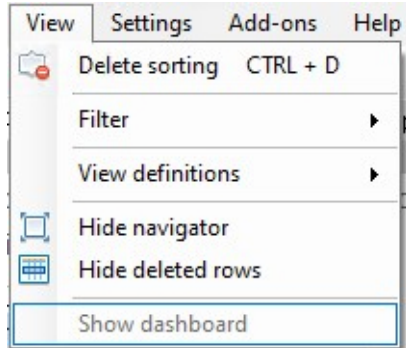
## Content level editing

Table editing

Find

Replace

## View



ReqEdit View menu

Attributes (columns) related

## Filtering

ReqEdit can show a sub-set of the requirements based on special conditions of the attributes. Filters can be set and reset. **Filters will not be saved inside ReqIF files.**

## Sorting

ReqEdit can sort the requirements based on multiple columns. It can be configured and then reset. **The sorting is not saved inside the ReqIF file.**

### Show/Hide deleted requirement objects

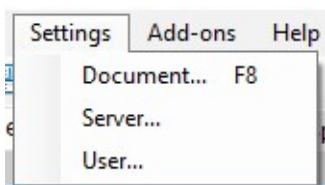
Soft deleted objects will be marked for deletion but are not removed from a specification until PURGE is not pressed. The deleted objects can be shown or hidden

### View definitions (views)

Views are a sub-set of the attributes that are displayed. **The views are not saved inside the ReqIF. file Views can be exported and later imported.**

The views can be imported and used on any specification as long as there are attributes with similar names.

## Settings



ReqEdit settings menu

Expert users can fine tune ReqEdit for their specific use case, and configure lots of ReqIF settings

### Document settings

Manage ReqIF file internal settings

Attribute Types

Attributes

Document attributes

Links

Configure Main Column display settings

## **Server settings**

ReqEdit file server connection settings

Server user credentials

## **User settings**

ReqEdit internal configuration

Interface language

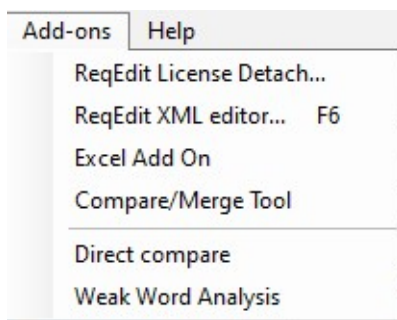
Auto backup settings

Doors table display settings

Cache size

Dashboard startup

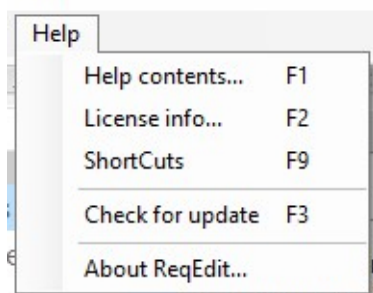
## Add-ons



ReqEdit Add-ons menu

Displays all available add-ons which are active in the current license. Descriptions below.

## Help



ReqEdit Help menu

Contains a user guide. Can display Information about the active license. Display keyboard shortcuts. Check for online updates. Display version information about the current ReqEdit release.

## Add-ons

ReqEdit Ultimate comes with powerful addons that extends the base functionality.

## Xml Editor

Look inside ReqIF files and check the xml code. The editor comes with a built in ReqIF validation function that will debug any invalid code. Read more [2]here.

## Excel importer

Turn your excel files into ReqIF files. Data exchange is more reliable and lossless if ReqIF is used. Read more [3]here.

## Compare / Merge tool

Will generate a comparison report that can be handed out as a single html file. Read more [4]here.

## Weak-word Analysis

Weak words are words that are confusing for readers and should be avoided if possible. This tool provides a case insensitive whole word search for this purpose, optionally writing the results back in the ReqIF file. Read more [5]here.

## License Detach tool

Take ReqEdit out of the licensing environment. This power feature will enable users not to depend on the local licensing servers and to be able to work from anywhere. Read more [6]here.

# Expert knowledge

## Tab title configuration

ReqEdit exposes some settings that can be configured for the tabs. The configuration file is located in **AppData\Local\REQTEAM\ReqEdit\ReqEditSettings.xml**

### Setting Values Notes

TabDocumentTextAlign Left, Right Alignment of document title in the tab

TabDocumentWidth 250px width of the tabs in pixels

## Keyboard shortcuts

Ctrl+O Open file

Ctrl+N New file

Ctrl+S Save file

Ctrl+Shift+S Save as

Ctrl+W Close file

Ctrl+Shift+W Close all file

Alt+F4 Close application

Ctrl+D Delete Sorting

Ctrl+F Find text

Ctrl+H Replace text

Ctrl+E Add new or edit filter

Ctrl+A Deactivate filter

Ctrl+Q Delete filter

Alt+N Add new object below

Alt+Shift+N Add new child object

Ctrl+Tab Switch between open tabs

Ctrl+C Copy text information inside the cell

Ctrl+X Cut text information inside the cell

Ctrl+V Paste text (remove all formatings)

Ctrl+Alt+S Start link

Ctrl+Alt+E End link

Ctrl+Alt+R Reset start link

Ctrl+Alt+R Reset start link

F1 Open help

F2 Open selected cell in edit mode

F3 Check for update

F5 License information

F6 XML Editor  
F8 Document settings  
F9 Shortcut window

1. <https://documentation.reqteam.com/?p=2386>
2. <https://documentation.reqteam.com/xml-editor-add-on/>
3. <https://documentation.reqteam.com/excel-importer-add-on/>
4. <https://documentation.reqteam.com/merge-compare-add-on/>
5. <https://documentation.reqteam.com/weak-word-analysis-add-on/>
6. <https://documentation.reqteam.com/license-detach-utility/>

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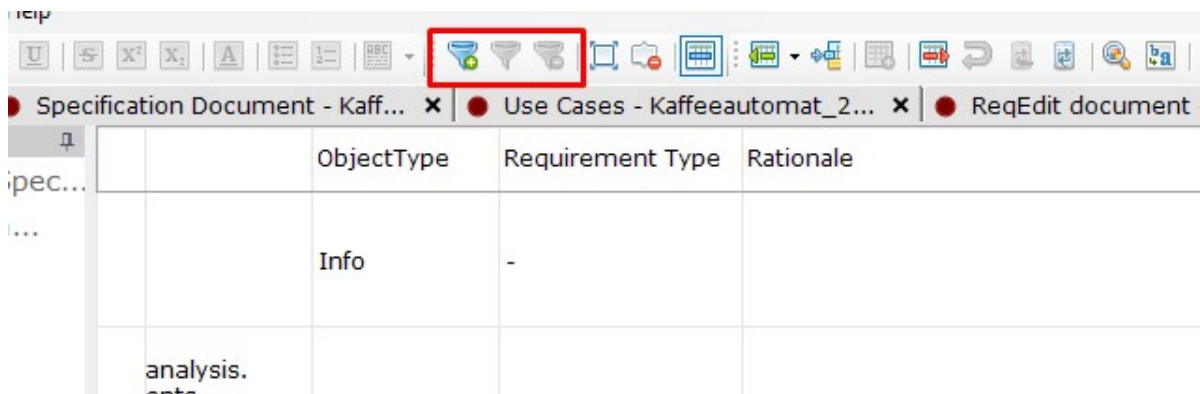
## Filtering, Searching and Sorting (2021-07-26 10:17)

### Filtering

Filtering can be used to display only a subset of objects based on specific criteria.

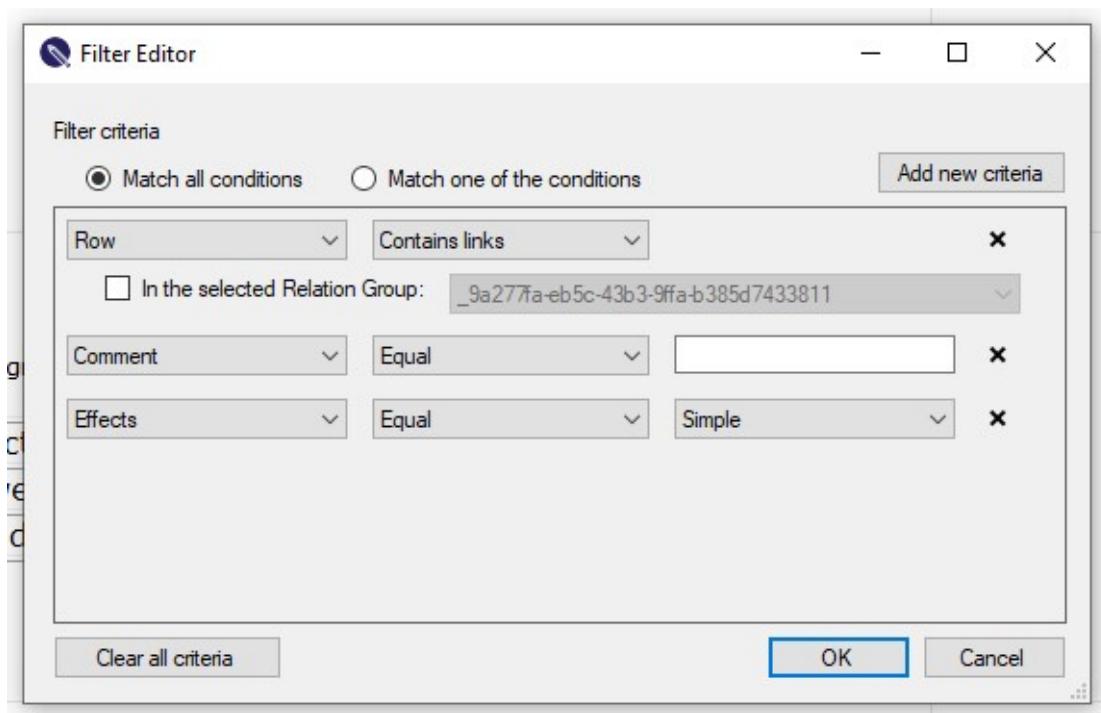
**Filtering is temporary, rules are not saved.**

From the toolbar **create filter**, **enable / disable current filter**, **delete filter** can be used.



ReqEdit toolbar highlighted are the filtering icons

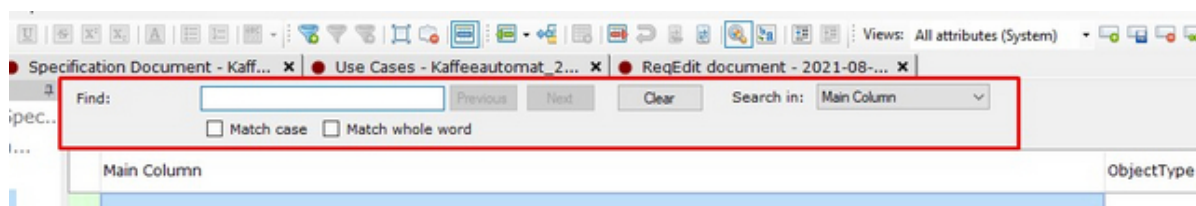
Filters can be constructed by the toolbar icons, then later edited or deleted.



ReqEdit filter editor popup window

## Searching

Activate the search bar from the toolbar or by pressing CTRL+F

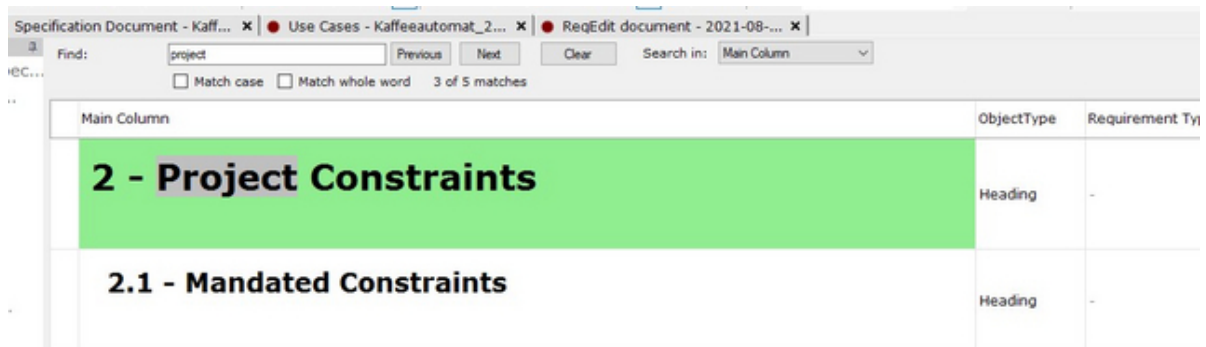


ReqEdit search bar displayed above the main content area

Search can be done in three contexts:

- **Main Column:** search only in ReqIF.ChapterName, ReqIF.Name, ReqIF.Text
- **Entire document:** all attributes

- **ForeignID**: search only in ReqIF.ForeignID (only if the attribute is present in the current document)

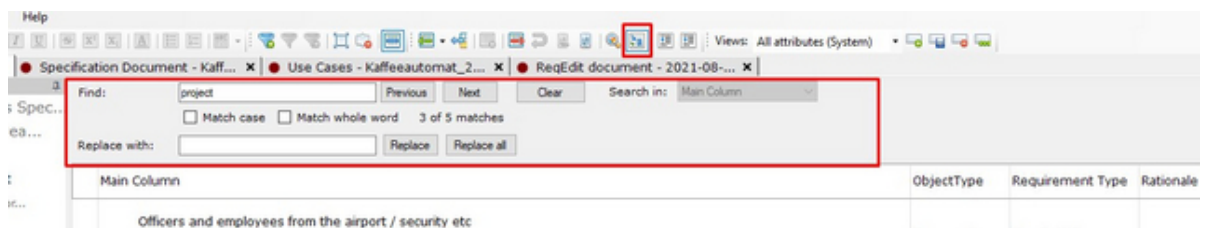


ReqEdit searching, found result displayed in green cell background

## Search and Replace

Replacing values or part of values depending on the search can be done by pressing CTRL+H enabling the replace bar

### The replace function works only for the Main Column



ReqEdit displaying Search and Replace bar above main content area

Skipping a specific replacement press the **Next** button

**Replace all** will do the replacements in the contents of the Main Column then display the total count of replacements.

## Sorting columns

Columns can be sorted ascending or descending by **clicking** or by **right clicking** on the column header. Each sort will reset the previous sorting.

Main Column	Comment	ObjectType
based on Volere Requirements Specification Template Edition 15—March 2020		Comment
Volere is the result of many years of practice, consulting, and research in requirements engineering and business analysis. We have packaged our experience in the form of a generic requirements process, requirements training, requirements consultancy, requirements audits, a variety of downloadable guides and articles, and this requirements template. We also provide requirements specification-writing services.		Info
The first edition of the Volere Requirements Specification Template was released in 1995. Since then, organizations from all over the world have saved time and money by using the template as the basis for discovering, organizing, and communicating their requirements.		

ReqEdit column sorting menu by right clicking on the column headers

## Multi-column sorting

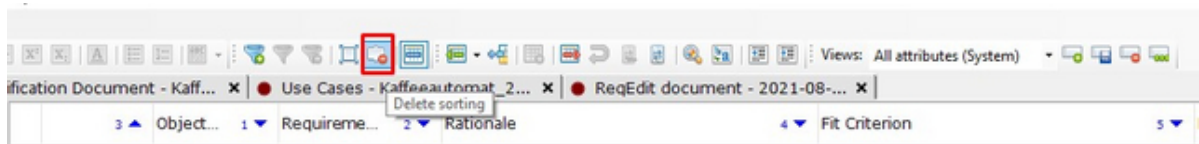
To have multiple sorting CTRL+click the column headers you want to sort. A numbered arrow will display the sorting order. To change the ordering press CTRL+click again on the column

Main Column	Object...	Requireme...
A LAN port can be set	Requirement	Constraint
Access to the machine is possible only during the operating hours	Requirement	Constraint

ReqEdit multi column sorting displayed by numbered arrows in the column headers

## Reset sorting

Press the delete sorting icon in the toolbar or press CTRL+D



## View Manager (2021-07-26 10:18)

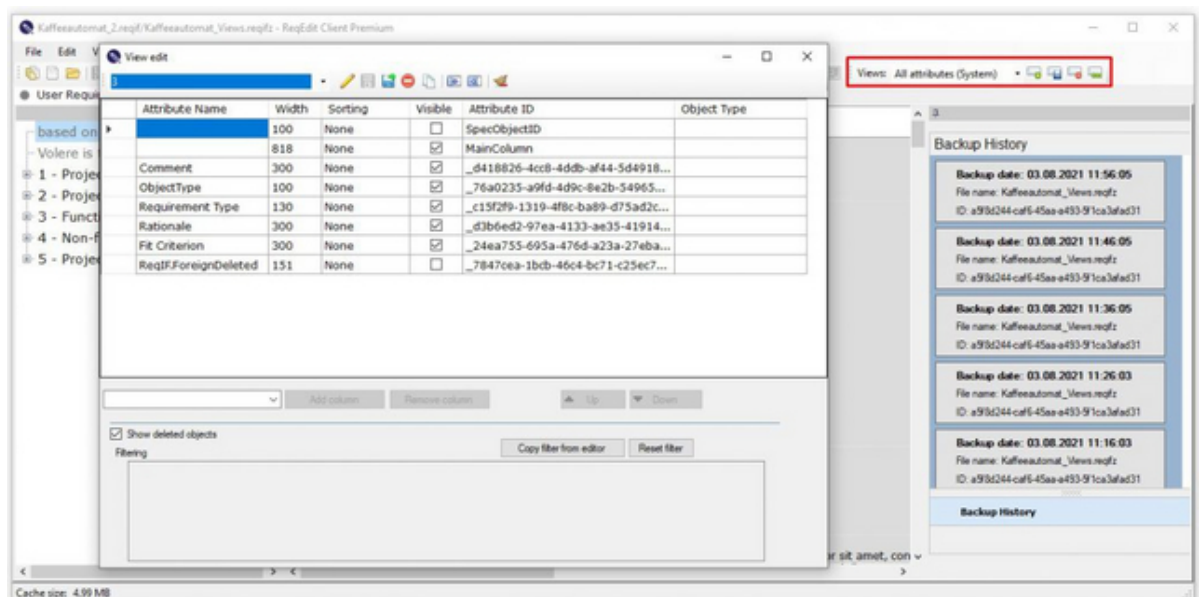
### What are views?

Views are visible column sets with optional custom sorting and filtering saved as presets. The view manager is located in the toolbar icon groups on the right side.

The views are only for displaying the ReqIF contents in a more human friendly manner for large files with lots of metadata.

**The view presets are saved in the ReqIF file**

**Views can be exported and later imported from the local hard drive**

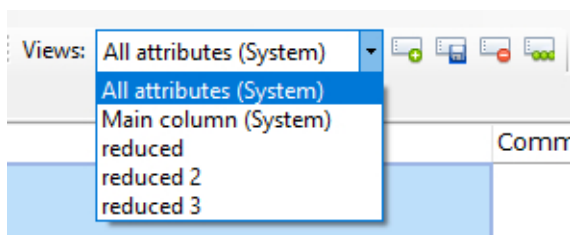


ReqEdit displaying the view manager popup window, highlighted is the view manager toolbar

There are two system views defined per each document which cannot be deleted:

**All Attributes** - show all the columns in the document

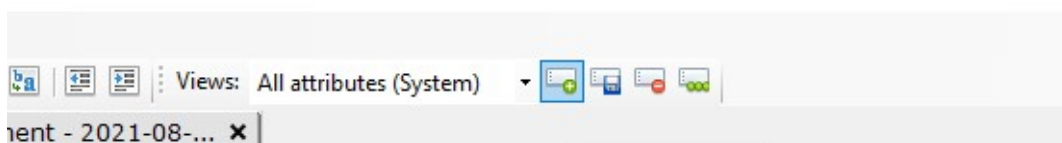
**Main column** - show only the main column



View selector in the toolbar

## Manage views

To be able to manage views **user defined views has to be created** by clicking the **Create new view** icon

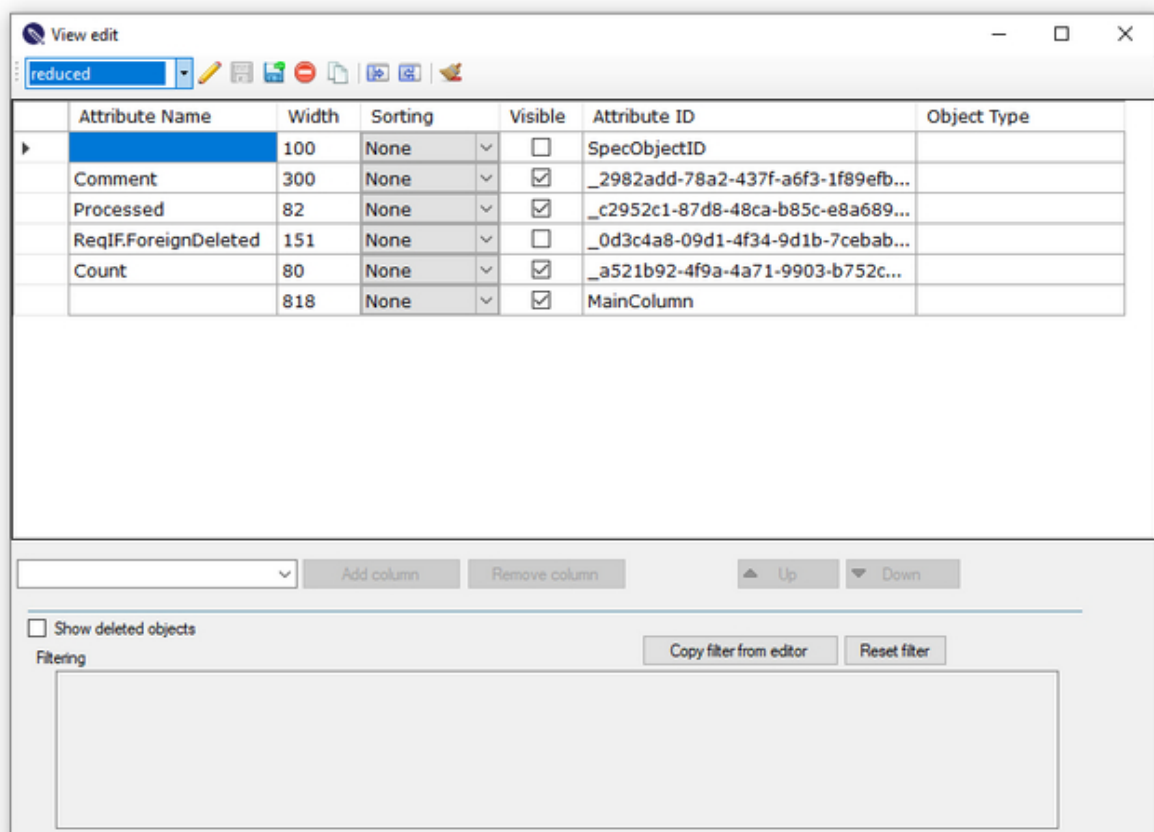


View toolbar icons, selected is the Create new view icon

## Create or edit views

Pressing the Edit view icon the view editor popup window is displayed. The toolbar icons are:

- **Rename**
- **Save**
- **Save and Apply**, will show the applied view in the main content area
- **Delete** after confirmation the view is deleted
- **Make a copy** of the view by setting a new name
- **Export** the current view in a .view file
- **Import** .view files. Only existing column names are imported
- **Cleanup**, will leave only the visible columns in the document, a confirmation popup lists all the views / attributes that will be removed. This operation saves the document so a backup is highly advised.



View editor window

# Filtering

Views can inherit filtering from the current document. Press **Copy filter from editor** to save the filter into the view.

Show deleted objects filter can also be used

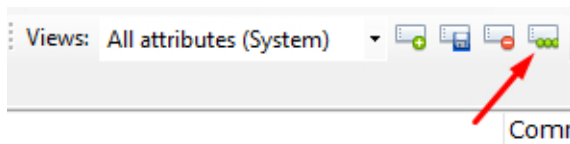
## Toolbar

### Creating new views

Clicking the Add View button will ask user for the new view name and prepare it will all the attributes added to it

### Editing views

User can edit the view in the main gui with rightclicking the column names or by opening the View manager panel by clicking the icon to the right



View manger toolbar, highlighted is the Edit view icon

### Deleting views

User can delete the selected view if it's not any of the system views by clicking the Delete View button located in the toolbar

---

## **Links (2021-07-26 10:18)**

### What are links?

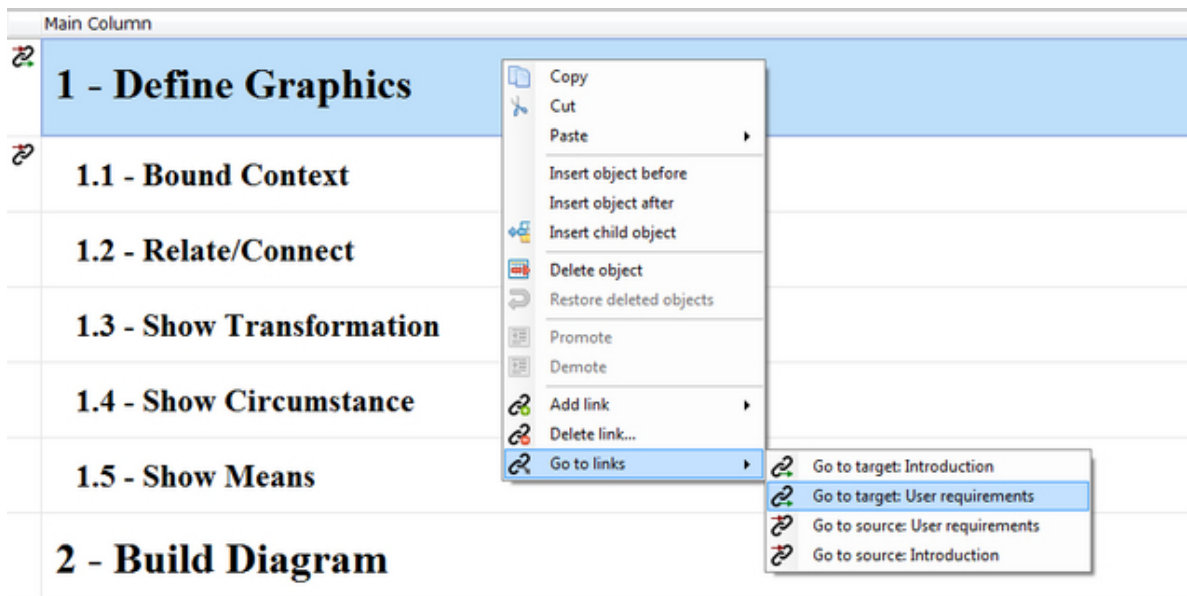
Relation between objects are called links. Each object can have incoming and outgoing links to / from other objects.

In ReqIF files links are stored in named LinkSet definitions which basically are a group of specific links between objects.

For example: Satisfies LinkSet has links that are between objects of use cases and technical definitions

### How links are displayed in ReqEdit?

If an object contains links, a link symbol and arrows indicating the link type are displayed inside the status indicator column. The red arrow indicates an incoming link and the green arrow indicates an outgoing link. If an object contains both types of links, both types of arrows are displayed.



ReqEdit displaying context menu for an object with links

## Go to links

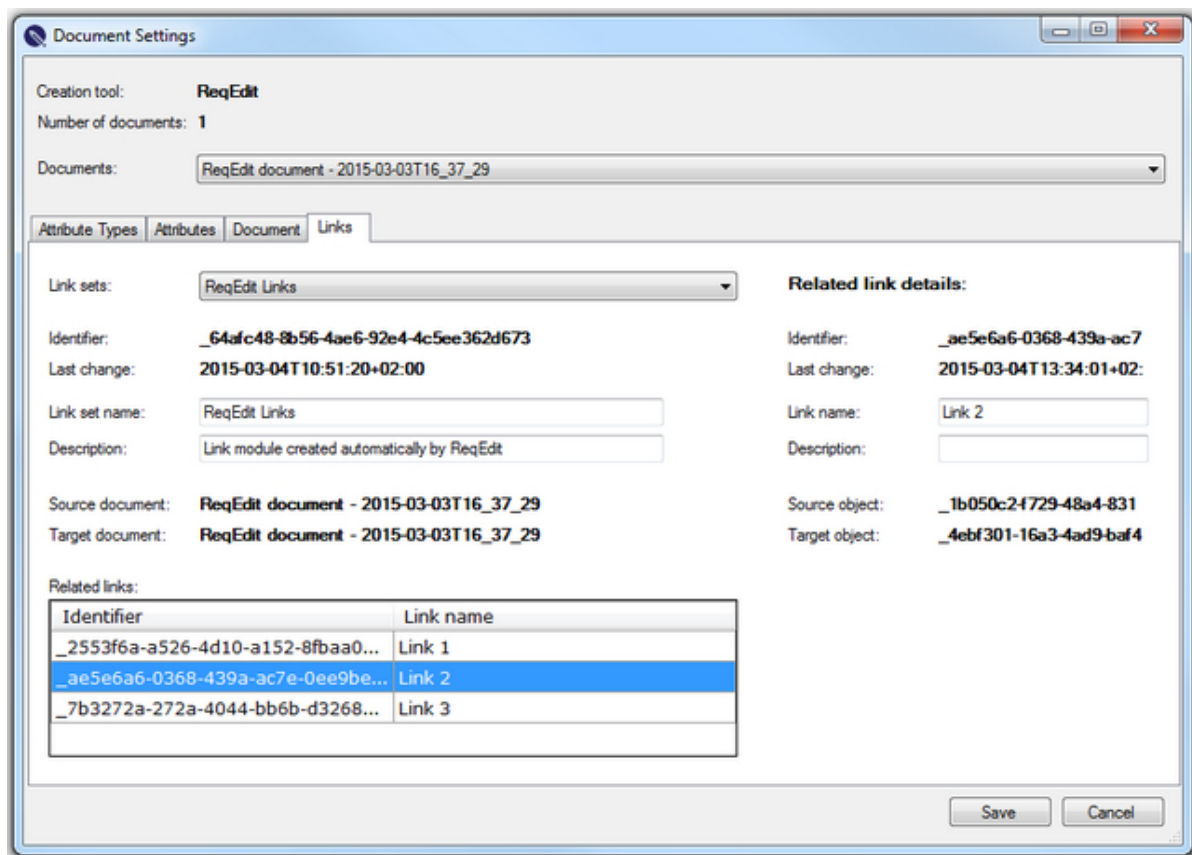
To follow a link to its destination or source, you have to perform a right click on the object row and go to the „Go to links” menu item. A submenu will open and display the available links. A submenu item contains a symbol for incoming or outgoing link and according text „Go to source” or „Go to target” and also the object text (in case there is any available) or the ReqIF ID of the source or target object.

A link can be incoming from or outgoing to an object from the same document but also to another document. When clicking on a link in the submenu, the linked item will be selected and displayed on the first row in the grid. If the linked object is contained in another document, the program will automatically switch to the document’s tab and select the linked object. If the document containing the linked object is not opened in ReqEdit, the program will ask if you want to open it.

NOTE: Currently we only support links between objects inside the same ReqIF file. If an object contains a link to another ReqIF file, the text „The target is placed in an outer file...” will be displayed in the links menu.

## Links administration

The link administration tab can be accessed from the “Document Settings” window.

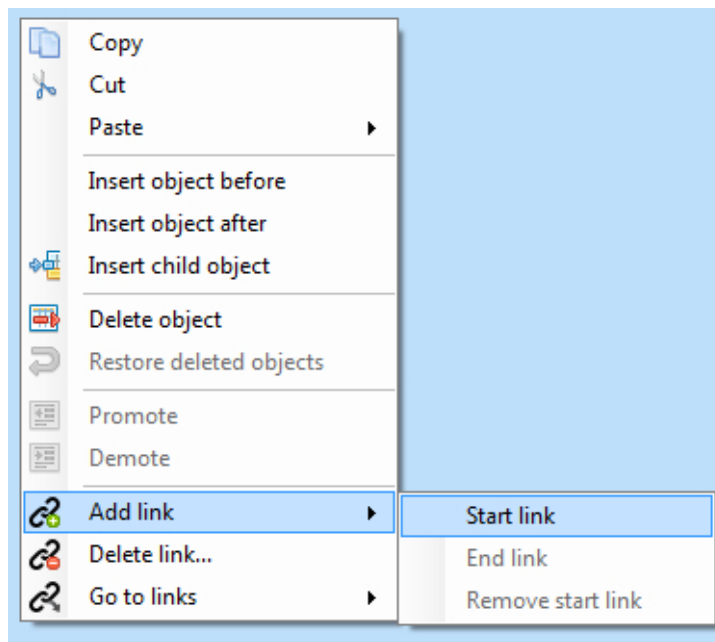


ReqEdit link settings window

In this section, all link sets related to the selected document can be viewed and administered. You can change the link set name and description and also edit each individual link's name and description related to that link set.

## Add links

In order to create a new link, first you have to create a "start link" by right clicking on an object and then going to the "Add link" menu and clicking on "Start link" in the submenu.



After creating the start link, an icon will appear in the status column of the source object.

The next step is choosing a target object for the link. You can do this by right clicking on an object and selecting “End link” from the “Add link” submenu.

Next, you can add links to some other objects starting from your source object, by repeating the last step. After you added all your links from the source object, you can click on the “Remove start link” menu item from the “Add link” submenu.

After removing the start link, you can add a new one to another object.

## External Links

ReqEdit offers you the possibility to store external links in your ReqIF document. This can be either an OSLC or a Web URL. Please select in the row you want to link and use the right mouse click to open the related menu and select the entry “Add external link”. After selection, you will see this input dialog.

You can define with the long name a display name for the link. In the field URL please enter a valid URI (including protocol prefix like http:// ). The field link type is optional, and should be used to classify links (like derives, implements).

For the link direction, you can choose between INWARDS and OUTWARDS. The selection has no impact on the function, it is just a semantic. The field technology determines how the link is intended to be open. Currently all links will be opened with your default browser.

You can add an additional description to the link as well. If you now press “Save” button, you will see the link in the Go to links menu with the selected name. If you don’t define a name the URI will be displayed.

If you want to edit the external link, than please select in the right click menu the entry “Edit external links” and select the link you want to edit:

If you click on the edit button, then you will get the same dialog described before. Here you can edit all the properties of the external link.

**Please take in consideration, that this feature is not implemented currently by all tools, that support ReqIF. This information may get lost if you import the ReqIF file generated by ReqEdit to other tools, that not support this feature.**

## Delete Links

In order to delete a link, you have to right click on an object that contains one or more links and go to the “Delete link...” menu item. After clicking it, a window containing all links of the object will be displayed.

Only outgoing links can be deleted from an object. If you want to delete an incoming link, you have to delete it from the source object.  
For deleting outgoing links you have to select them by clicking on the checkbox at the beginning of the rows and click on the “Delete” button afterwards.

**Incoming links have a grey background and cannot be selected.**

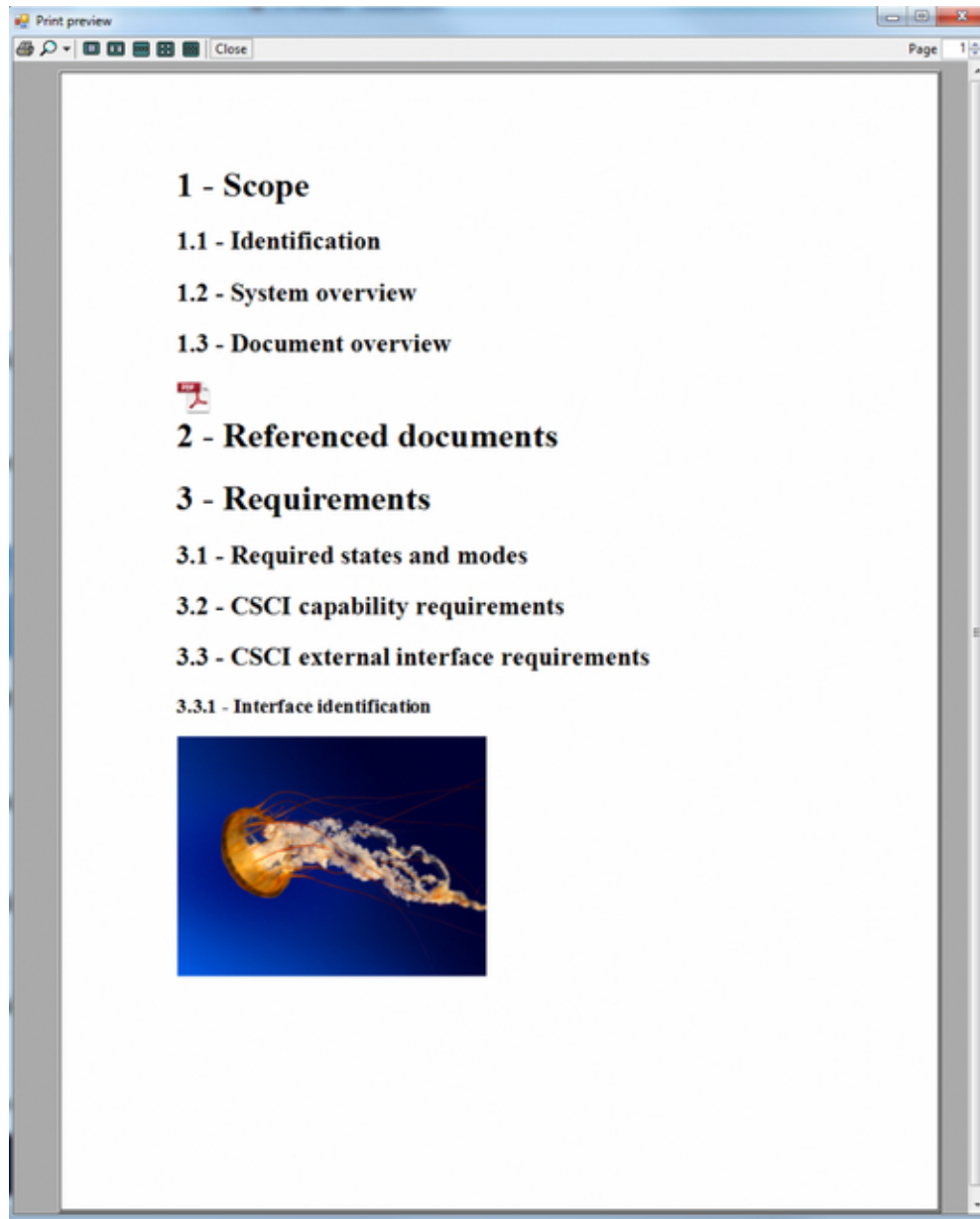
---

**Printing (2021-07-26 10:19)**

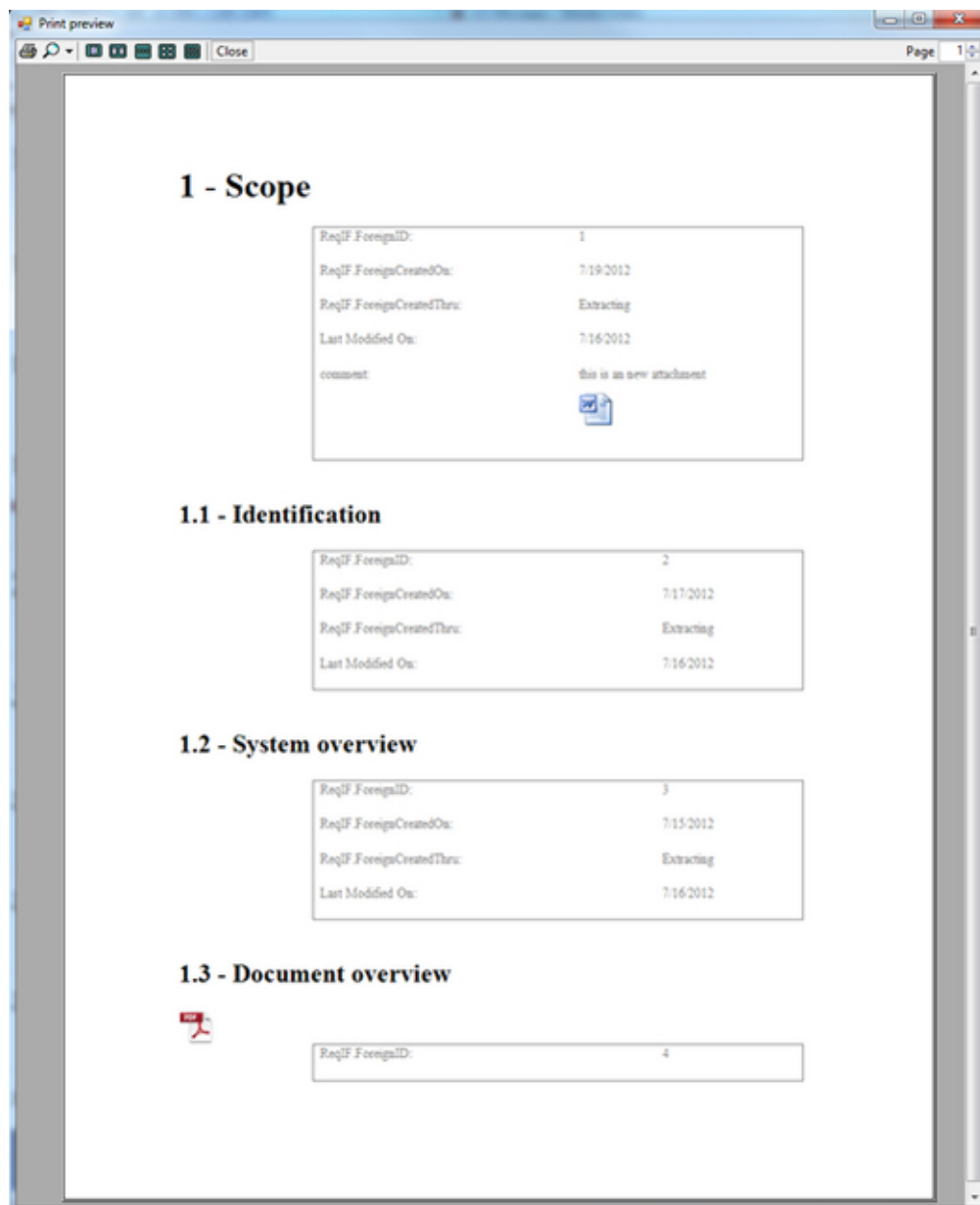
## How to print requirements?

ReqEdit supports printing the Main Column or all the visible contents of the current document. File > Print will show the two options.

Print Main Column



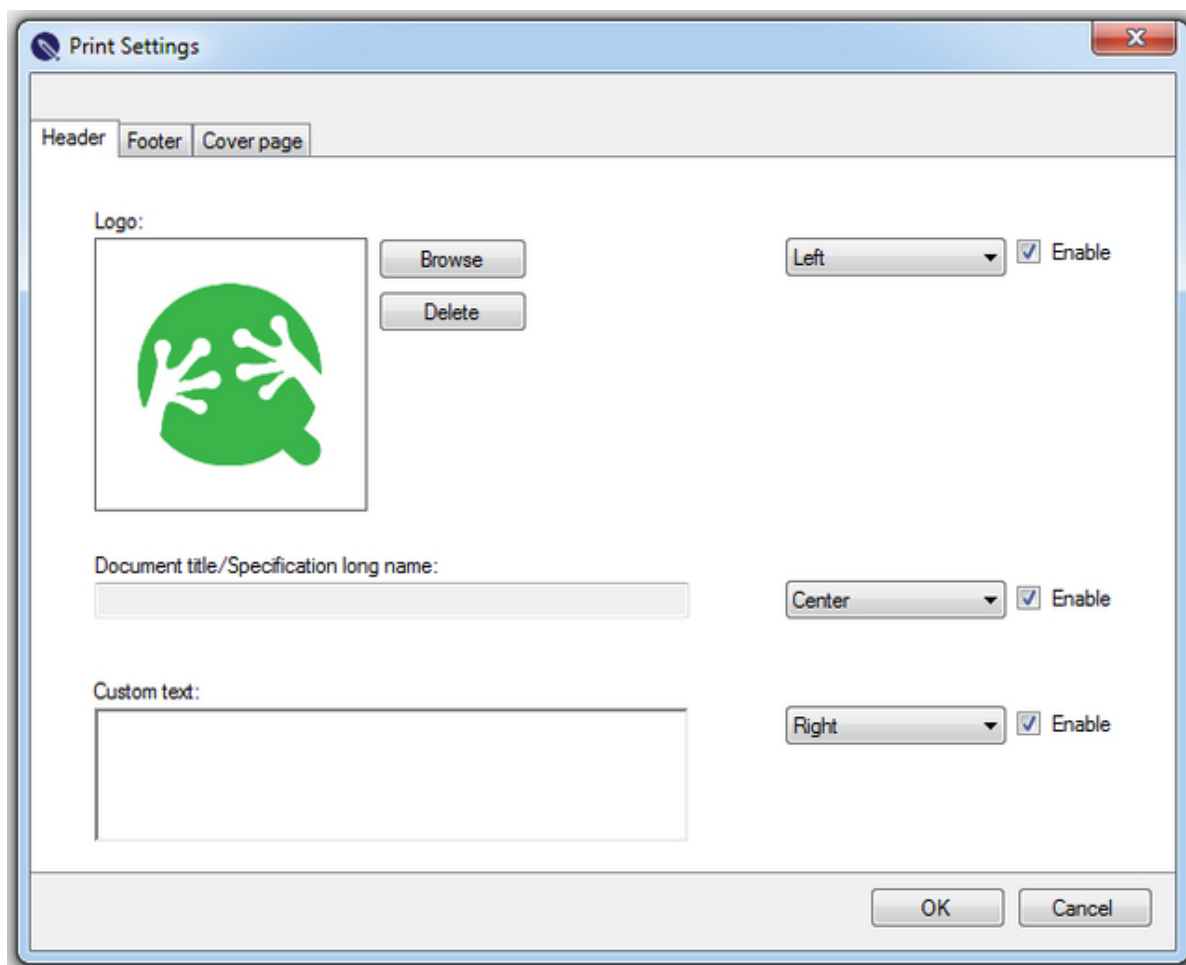
Print All visible columns



Customize the current view with filters and sorting to prepare a custom view for the print.

Customize the output

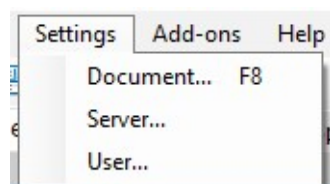
ReqEdit offers print customization of the header, footer and cover pages. Access the File > Print > Settings menu item for displaying the customization window.



## Print customization

## Settings (2021-07-26 10:19)

Expert users can fine tune ReqEdit for their specific use case, and configure lots of ReqIF related settings



## ReqEdit settings menu

## **Document settings**

Manage ReqIF file internal settings

Attribute Types

Attributes

Document attributes

Links

Configure Main Column display settings

## **Server settings**

ReqEdit file server connection settings

Server user credentials

## **User settings**

ReqEdit internal configuration

Interface language

Auto backup settings

Doors table display settings

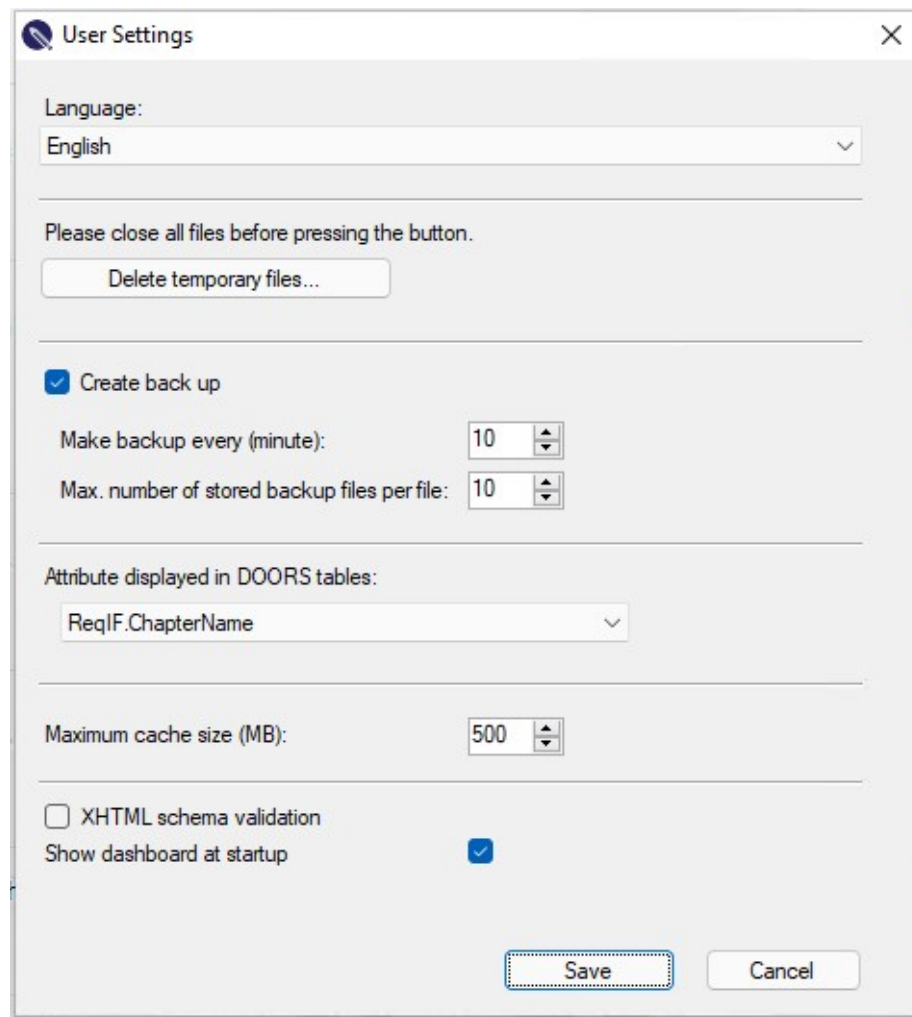
Cache size

Dashboard startup

## Document Settings

Read the chapter [1]Document Settings for an in depth overview.

## User settings



User settings window

ReqEdit can be displayed in two languages: **English** and **German**.

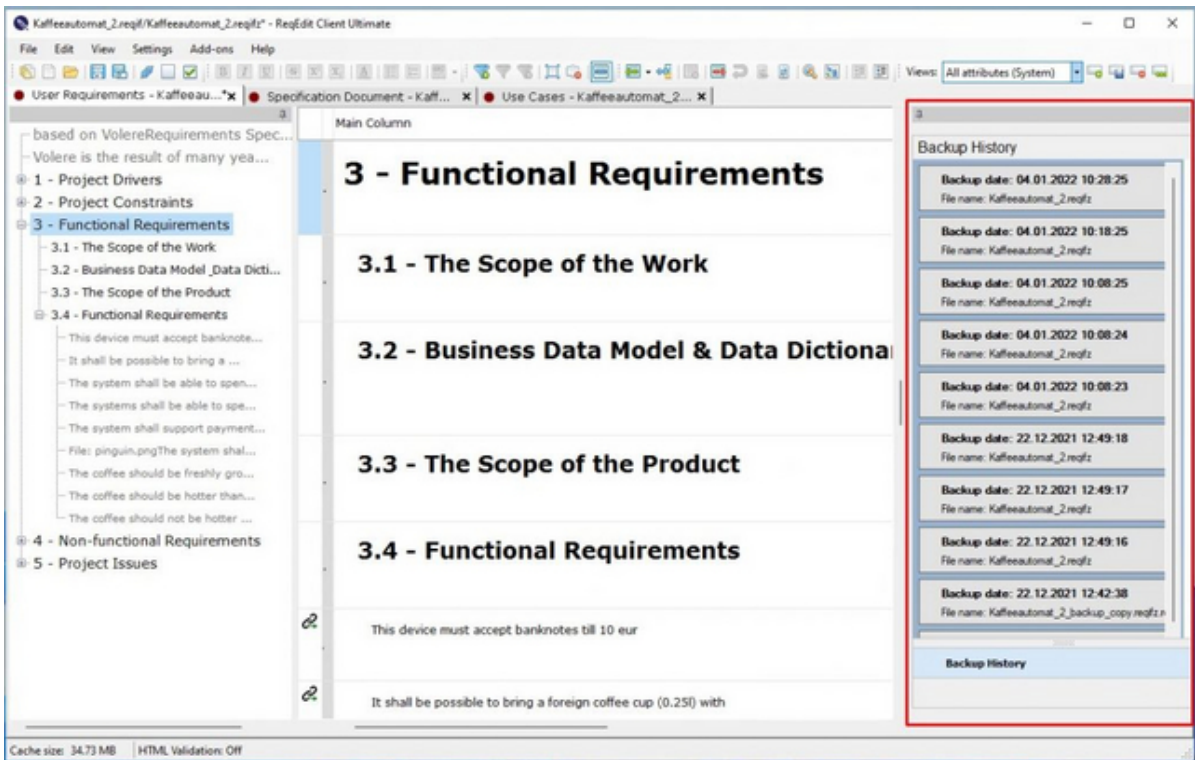
To change the language, press Save and then restart ReqEdit.

## Temporary files

Using ReqIF files produces temporary files like: previews, caches, ReqIF Archive objects, etc. To clean the user space use the **Delete temporary files** button

## Backups

When a file is saved for the first time, ReqEdit automatically makes a backup copy of the initial state of the file and also starts the timed backup process. By default, the program creates a backup every 10 minutes until it reaches 10 backup files. After that, the oldest backup file will be overwritten. The number of minutes and number of backup files can be changed by the user in the User settings panel.



ReqEdit displaying a ReqIF file, highlighted on the right side is the auto backup panel displaying available backups

The timed backup process can also be disabled by unchecking the [Create backup] checkbox in the Settings > User panel.

By default, ReqEdit stores the backups in the Windows user folder. This is a Windows 7 location sample: **C:\Users\user\_name\AppData\Local\ReqEdit\BackUpFiles**

The locations of the Log and Backup folders can be changed. More information can be found in the Program environment chapter.

## Image caching

Limit the RAM memory used by ReqEdit. Default value is 500mb, but can be increased to gain more speed.

ReqEdit uses image caching to speed up displaying XHTML contents of the ReqIF files. If the ReqIF files are big, increasing the cache size could be a good idea.

## Server settings

This requires a ReqEdit Server instance and to be accessible on the internet.

Read more on the **Collaborative work with ReqEdit Server**

The focus of ReqEdit Server is to keep the file management effort as low as possible. The server offers a central point where you can organize and work with ReqIF files in ReqEdit.

**Server Settings**

Server settings

Host name:

Path:

Port:

Connection type: ☐ http:// ☒ https://

Application ID:

User name:

Password:  ☒ Save password

Proxy server

☐ Use proxy for ReqEdit server ☐ Use proxy for updater and license activator

Address:  Port:

User name:

Password:

## ReqEdit Server settings

Enter credentials for ReqEdit Server and press Test Connection then Save.

Once a valid configuration is saved press **Connect** from this window or from the toolbars or the File menu.



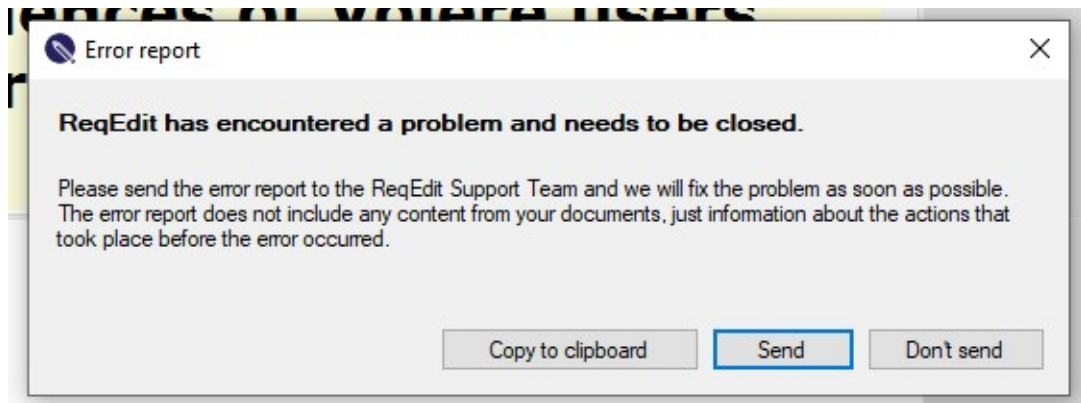
ReqEdit Server connection toolbar

1. <https://documentation.reqteam.com/chapter/document-settings/>

## Error reporting (2021-07-26 10:19)

### Crash reports

When a fatal crash happens, ReqEdit tries to collect non sensitive information about the situation. A notification asks to send the crash report to REQTEAM ticketing system for analysis.



ReqEdit fatal crash popup window

### Contact support

For any questions use the documentation platform [1]<https://documentation.reqteam.com>.

Or contact ReqEdit Support for assistance through email to: **support@reqteam.com**.

1. <https://documentation.reqteam.com/>

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## Notices and Limitations (2021-07-26 10:19)

### Specification document naming

Document names can only contain alphanumeric, space, period, underscore, hyphens characters.

## Logging

ReqEdit is producing a non-sensitive action log (does not contain actual values only action names) of each opened document.

The log files can be found here **%AppData %\..\Local\ReqEdit\ ReqEdit\Logger**

The log file is really helpful for analysis when ReqEdit crashes.

## OLE Objects

OLE was is a proprietary technology developed by Microsoft that allows embedding and linking to documents and other objects.

**Only ReqIF Archive .reqifz files support this feature**

### Import large OLE Files in ReqEdit

In some cases memory limitations will limit the OLE object conversion, in this case the OLE object will be wrapped inside an RTF file. Opening the OLE objects will only be possible through MS Word.

For any OLE conversion ReqEdit needs the memory 20 times the size of the OLE object.

## Import large OLE Files to DOORS

Exported files that have OLE objects larger than 40-45MB cannot be imported into IBM DOORS that is connected to IBM DOORS server 9.5.

## Preview

ReqEdit is not able to generate preview images during imports or if they are directly added in the application. A file-type icon will be displayed instead.

## Handling

Atego Requirements Synchronizer version 2.4 and IBM Rational DOORS 9.5.2. OLE objects can be imported and opened by ReqEdit.

## DOORS roundtrip

- Export always to an empty directory then archive only the contents of this directory to a zip file
- Check if the ReqIF file and all of the OLE objects are in the root folder of the archive
- Rename the file to .reqifz
- Import this file to ReqEdit
- Edit the file
- Export the file to IBM Rational DOORS

## Import to DOORS 9.4

Extract the ReqEdit exported file to an empty directory before importing to DOORS

If exports are done directly by IBM Rational DOORS, in most of the cases DOORS will not make the preview images. Only a small broken link icon is displayed as a preview image, but the linked OLE object still exists in the export.

**Don't delete the broken image icons, it is important for the linked OLE object.**

## Copy / Paste

Copy-paste from external sources will try to keep all formatting from the text.

Image or file copy-paste is partially supported. Drag & Drop of images from external applications like browsers are not supported.

Copy and paste of complex tables may occur problems with ReqEdit.

Limitation of entire function of copy paste on Windows Servers, because of limitation of the Internet Explorer on the server. For detailed description of limitations [1][click here](#).

## Open and save files from ReqEdit Add-ons

The limitation can affect all ReqEdit Add-ons (Excel import, View manager, Compare, XML Editor) where it can not open or save files from / to a network share, which is connected with other user credentials, than the Windows current user.

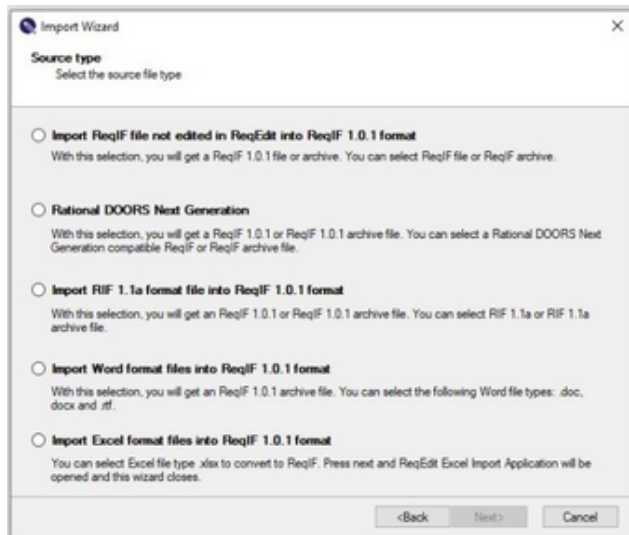
For detailed description of limitations in the Excel importer Add-on [2]click here.

1. <https://documentation.reqteam.com/windows-server-2019-2022-copy-paste-limitation/>
2. <https://documentation.reqteam.com/excel-importer-add-on/#Limitations>

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## Importing (2021-07-26 10:20)

The Import add-on opens non-standard ReqIF files and imports MS Word document files, or MS Excel spreadsheets. To import click on **File / Import...**



ReqEdit Import wizard window

## RIF, ReqIF Import

Some ReqIF files are not following the format standard. ReqEdit can still open these files by converting to a compatible format. Following formats are supported:

## **IBM Rational DOORS compatible ReqIF file to ReqIF 1.0.1 format**

### **Rational DOORS Next Generation**

#### **RIF 1.1a to ReqIF 1.0.1 format**

The ReqEdit editor supports the ReqIF Format coming from tools that are on the market. So the file attachments and images are stored in the archives as they are (no conversion of any type necessary) and for formatting we are using the XHTML tags that are designated for this purpose.

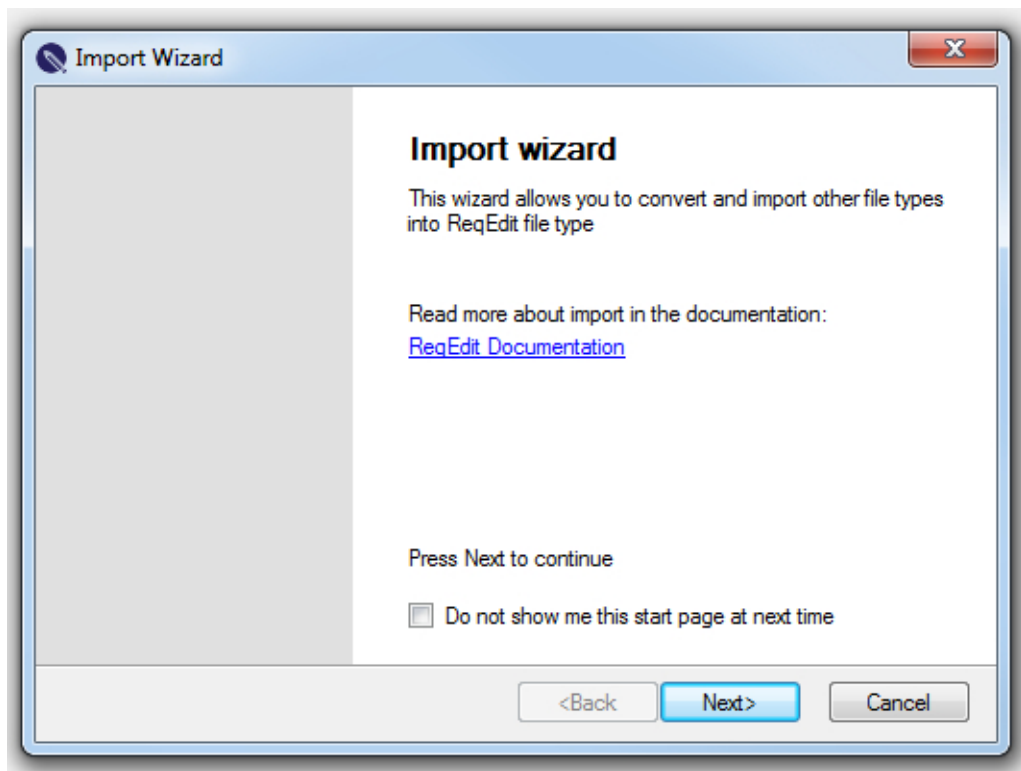
Not all tool vendors share this spirit, and they have their own kind of implementations that need to be adapted. One of these tools, IBM Rational DOORS, uses for external file reference an OLE wrapping around each of the files. This is ReqIF compatible, but not the standard.

ReqEdit needs to un-wrap this OLE object to get to the original file. This is happening during the import. ReqEdit creates a new file, with all the original files inside. The filename is kept as the original one, but has an additional suffix called “\_imported” in the name. This imported file can be edited. The linked external files can be opened with an application for the specific file type.

In order to edit files coming from DOORS (directly or via Atego Requirement Synchronizer) you need to execute an import, by clicking on File->Import.

NOTE: IBM Rational DOORS version. 9.5.2 and Atego Requirements Synchronizer 2.4 have been tested.

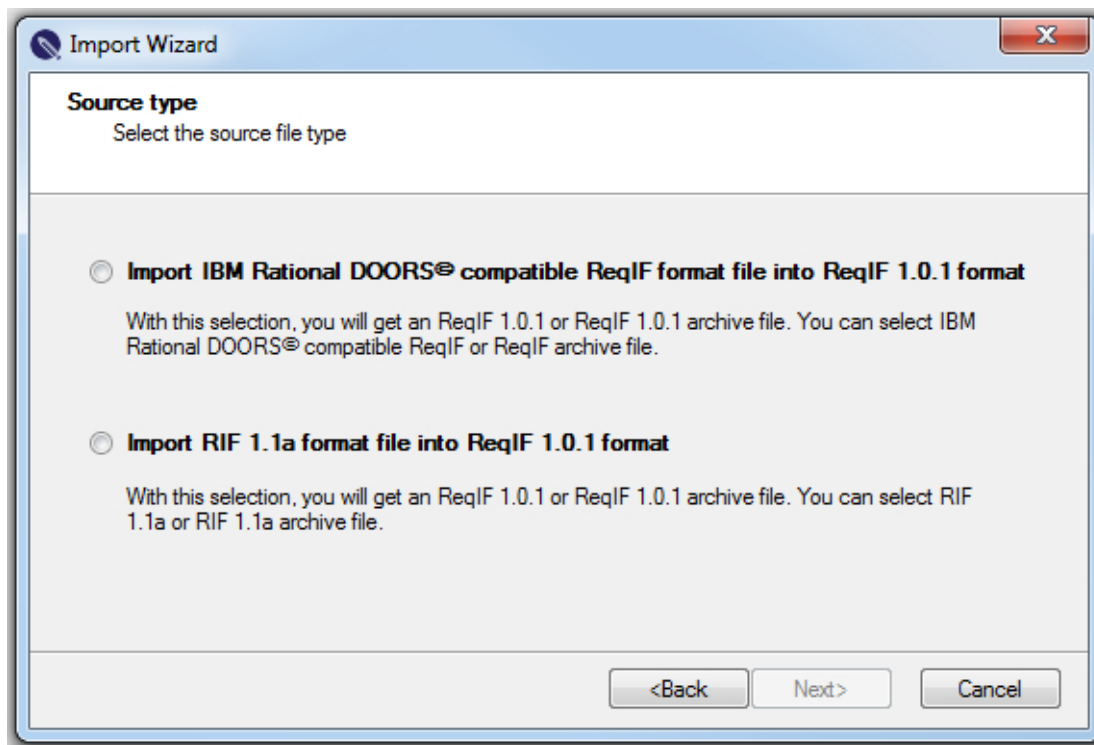
By clicking the “Import” menu item, a wizard will be opened and guide you through the import process.



## Import wizard

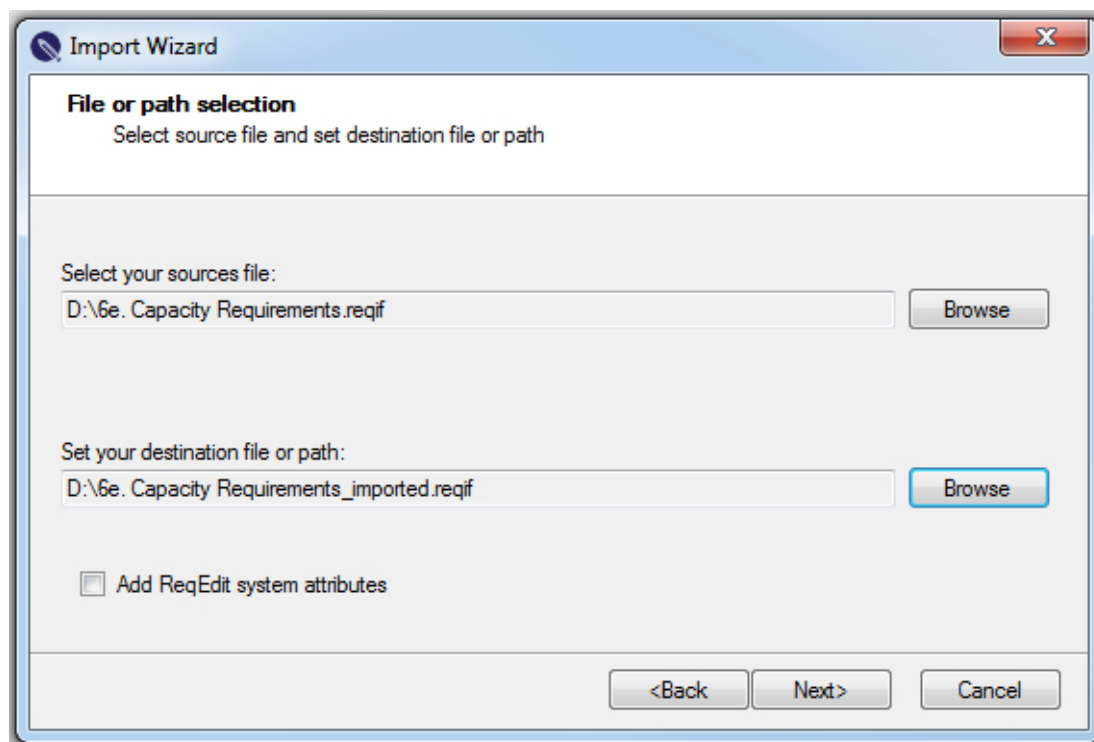
On the first page of the wizard you will find some information about the wizard and a link to the documentation. By selecting the “Do not show me this start page next time” check-box, this page will not be shown anymore on the wizard start-up.

In the next page of the wizard, the format of the file you want to import has to be selected. The available options are “IBM Rational DOORS© compatible ReqIF format” and “RIF 1.1a format”.



## Import options

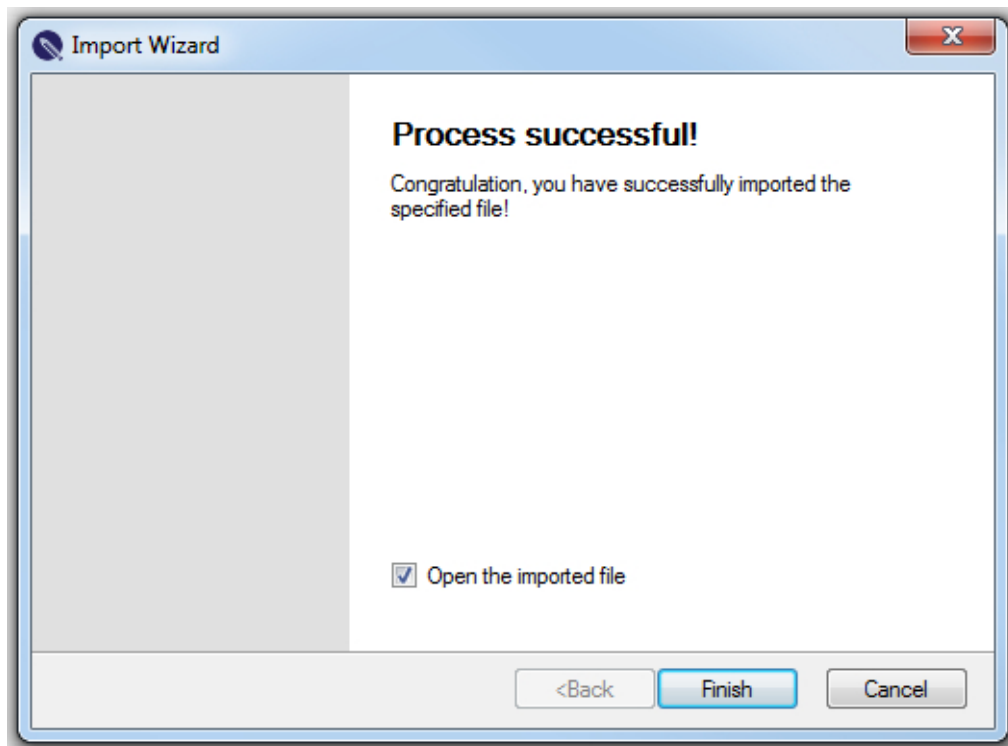
The following page lets you select the file you want to import and also the destination path and name for your output file.



## Import path

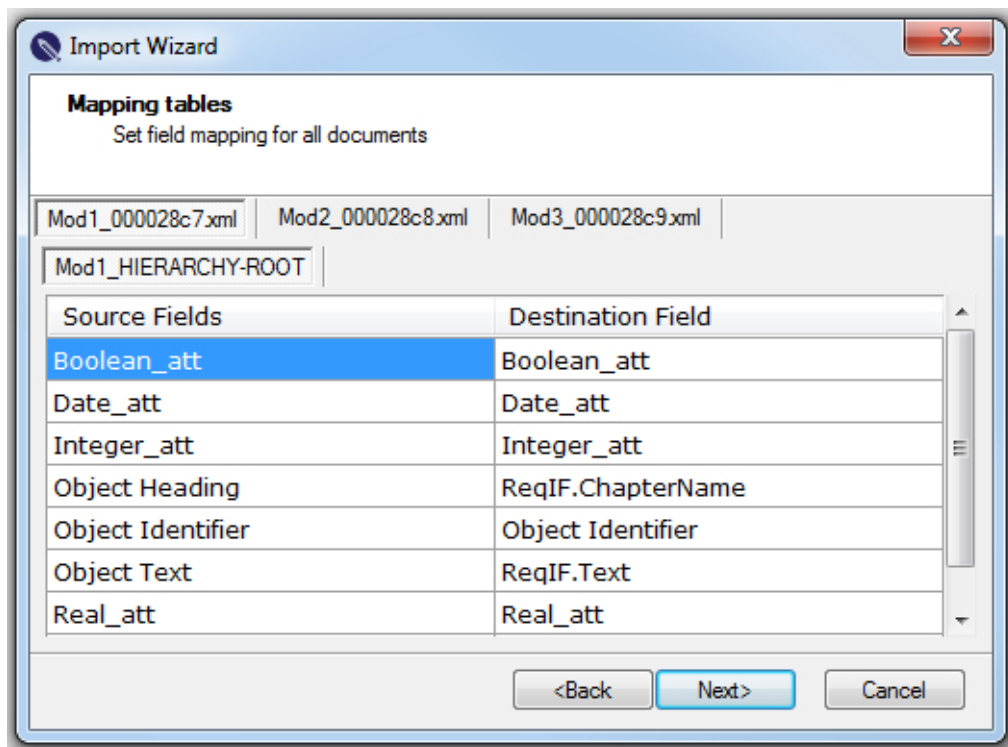
After the file is imported, a confirmation page will be displayed. You can select the “Open

the imported file” check-box if you want to open the file after the wizard is closed.



Successful import

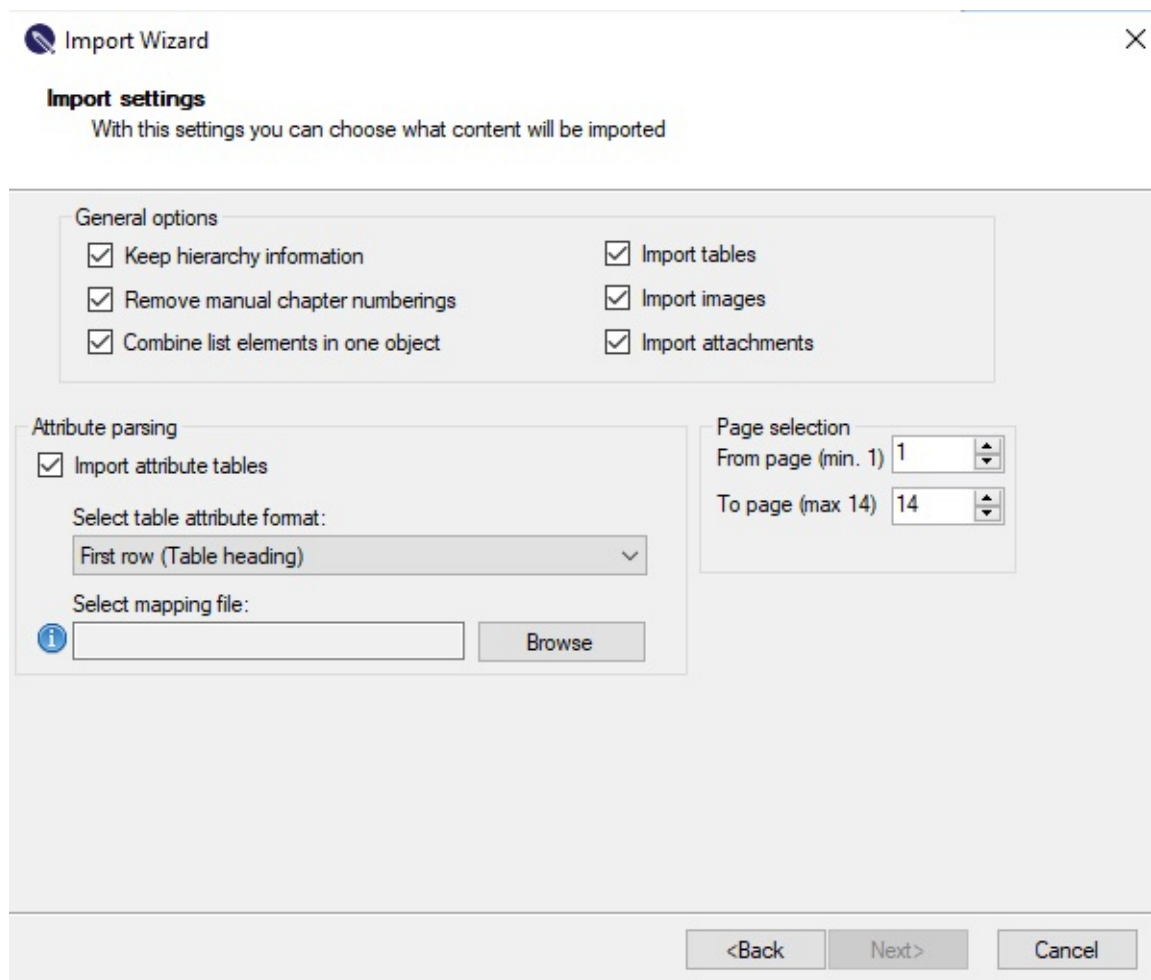
NOTE: If you import a file from RIF format, another page containing mapping tables will be displayed after the pre-validation. This page contains tabs for each file (in case of a RIF archive) and for each document contained in the xml files. For each document you can set the destination attribute name for every source attribute.



Import Log file

## MS Office Word Import

The Word Importer option imports .DOC files (Word 97-2003 type) into ReqIF.



Word Import wizard starting from v 2.19

**Note:** for a precise outcome, a table mapping file is needed for importing Word files, although it is also possible without it.

## Structure of the Word file

### ***Before starting the import process***

Simple structuring of the document is needed to mark headline depth which will be converted to nested objects

H1...H5

## Heading 1

Lorem ipsum dolor sit amet, cu nemore omittam eam. Pri te ipsum zril. Eam an habeo facer, quo ea nisl consulatu. Sea eu iriure equidem forensibus, nobis utinam ridens ex pri. Quidam facete fabellas eam id, abhorreant eloquentiam eu sea.

## Heading 2

Lorem ipsum dolor sit amet, cu nemore omittam eam. Pri te ipsum zril. Eam an habeo facer, quo ea nisl consulatu.

## Heading 3

Lorem ipsum dolor sit amet, cu nemore omittam eam. Pri te ipsum zril. Eam an habeo facer, quo ea nisl consulatu.

## Heading 4

Lorem ipsum dolor sit amet, cu nemore omittam eam. Pri te ipsum zril. Eam an habeo facer, quo ea nisl consulatu.

## Heading 5

ID	Heading	Text	Comment	Integer
0001	Table Heading 1	Pri te ipsum zril. Eam an habeo facer, quo ea nisl consulatu. Sea eu iriure equidem forensibus, nobis utinam ridens ex pri.	Coment 1	101
0002	Table Heading 2	Mei cu evertitur pertinacia, graecis deleniti ea eam. Quas sanctus ex pri. Ius id veri necessitatibus. An case altera lobortis eum.	Coment 2	102
0003	Table Heading 3	Id graeci ceteros eum. Eripuit inermis molestiae ex nam. Suscipiantur concludaturque in nam. Ea pro nostrum	Coment 2	103

source Word file with multiple child headlines

Main Column
<b>1 - Heading 1</b>
<p>Lorem ipsum dolor sit amet, cu nemore omittam eam. Pri te ipsum zril. Eam an habeo facer, quo ea nisl consulatu. Sea eu iriure equidem forensibus, nobis utinam ridens ex pri. Quidam facete fabellas eam id, abhorreant eloquentiam eu sea.</p>
<b>1.1 - Heading 2</b>
<p>Lorem ipsum dolor sit amet, cu nemore omittam eam. Pri te ipsum zril. Eam an habeo facer, quo ea nisl consulatu.</p>
<b>1.1.1 - Heading 3</b>
<p>Lorem ipsum dolor sit amet, cu nemore omittam eam. Pri te ipsum zril. Eam an habeo facer, quo ea nisl consulatu.</p>
<b>1.1.1.1 - Heading 4</b>
<p>Lorem ipsum dolor sit amet, cu nemore omittam eam. Pri te ipsum zril. Eam an habeo facer, quo ea nisl consulatu.</p>
<b>1.1.1.1.1 - Heading 5</b>
<p><b>1.1.1.1.1.1 - Table Heading 1</b></p> <p>Pri te ipsum zril. Eam an habeo facer, quo ea nisl consulatu. Sea eu iriure equidem forensibus, nobis utinam ridens ex pri.</p>
<p><b>1.1.1.1.1.2 - Table Heading 2</b></p> <p>Mei cu evertitur pertinacia, graecis deleniti ea eam. Quas sanctus ex pri. Ius id veri necessitatibus. An case altera lobortis eum.</p>
<p><b>1.1.1.1.1.3 - Table Heading 3</b></p> <p>Id graeci ceteros eum. Eripuit inermis molestiae ex nam. Suscipiantur concludaturque in nam. Ea pro nostrum consectetur. Vix rebum urbanitas an, no pro volutpat consulatu delicatissimi, ferri harum noster his ne. Quo ea odio unum eruditi, mei et ipsum ullum mucus, per in epicuri iudicabit.</p>

resulting ReqIF with nesting

Mapping

Table mapping

To convert tabular data to objects with attributes a manual mapping is needed that will be used throughout the document

```
ID | Renamed ID | integer
Heading | ReqIF.ChapterName | text
Text| ReqIF.Text | text
Comment | Comment | text
Integer | Integer | integer
Real | Real | real: .
Date | Date | date: dd.MM.yyyy
```

The mapping syntax is **<table column name> | <target attribute name> | <attribute type>**

Where attribute types can be integer

text

real:<decimal separator> decimal separator string , / . (comma or point)

date:<date format> date format supports standard date notations

enumeration NOT SUPPORTED

## Mapping file

To convert Headings to objects with attributes a manual mapping is needed that will be used throughout the document

```
ID | Renamed ID | integer
Heading | ReqIF.ChapterName | text
Text| ReqIF.Text | text
Comment | Comment | text
Integer | Integer| integer
Real | Real | real: .
Date | Date | date: dd.MM.yyyy
```

## Import .doc file

Before importing a doc File(Format 97-2003) please ensure it is not open in any other application, then in ReqEdit click on the **File/Import...** or **Import files** in the dashboard. A Wizard window appears and leads you through the import process.

Browse for the document file and give the imported file destination. Then click **Next..** Basically, the name of the ReqIFz file will be the same as the document's name plus 'imported'.

Import Wizard

**File or path selection**  
Select source file and set destination file

Select your source file:

Browse

Select your destination file:

Browse

To display the options on the next page, the selected document need to be loaded. This may take some seconds...

<Back Next> Cancel

After selecting the source files , destination file becomes the "imported" name

In the next Window you can select the import options.

**Import Wizard**

**Import settings**  
With this settings you can choose what content will be imported

**General options**

- ☒ Keep hierarchy information
- ☒ Remove manual chapter numberings
- ☒ Combine list elements in one object
- ☒ Import tables
- ☒ Import images
- ☒ Import attachments

**Attribute parsing**

- ☒ Import attribute tables
- Select table attribute format:  
First row (Table heading)
- Select mapping file:

**Page selection**

From page (min. 1)

To page (max 14)

<Back   Next>   Cancel

## Word Import Wizard

### General options

**Keep hierarchy information** will show the objects at levels based on Heading settings.

**Remove manual chapter numberings** option will remove the chapter numberings of ReqIF.

**Combine list elements in one object** will show the whole list in one object in ReqIF.

The wizard allows the import options of tables, attributes and attachments.

**Attribute parsing** is possible only if a mapping file is given.

The **Page selection** allows selecting parts of the document to be imported. Given values must be integers of existing page numbers of the document.

Note: If ReqEdit cannot open the document file, the page selector is not live and the document cannot be imported.

**Import Wizard**

**Import settings**  
With this settings you can choose what content will be imported

**General options**

- ☒ Keep hierarchy information
- ☒ Remove manual chapter numberings
- ☒ Combine list elements in one row
- ☒ Import tables
- ☒ Import images
- ☒ Import attachments

**Attribute parsing**

- ☒ Import attribute tables

Select table attribute format:  
First row (Table heading)

Select mapping file:  
port\mapping test word import Melinda.txt Browse

**Page selection**  
From page (min. 1) 1  
To page (max 11) 11

<Back **Next>** Cancel

Select the mapping file for Attribute parsing

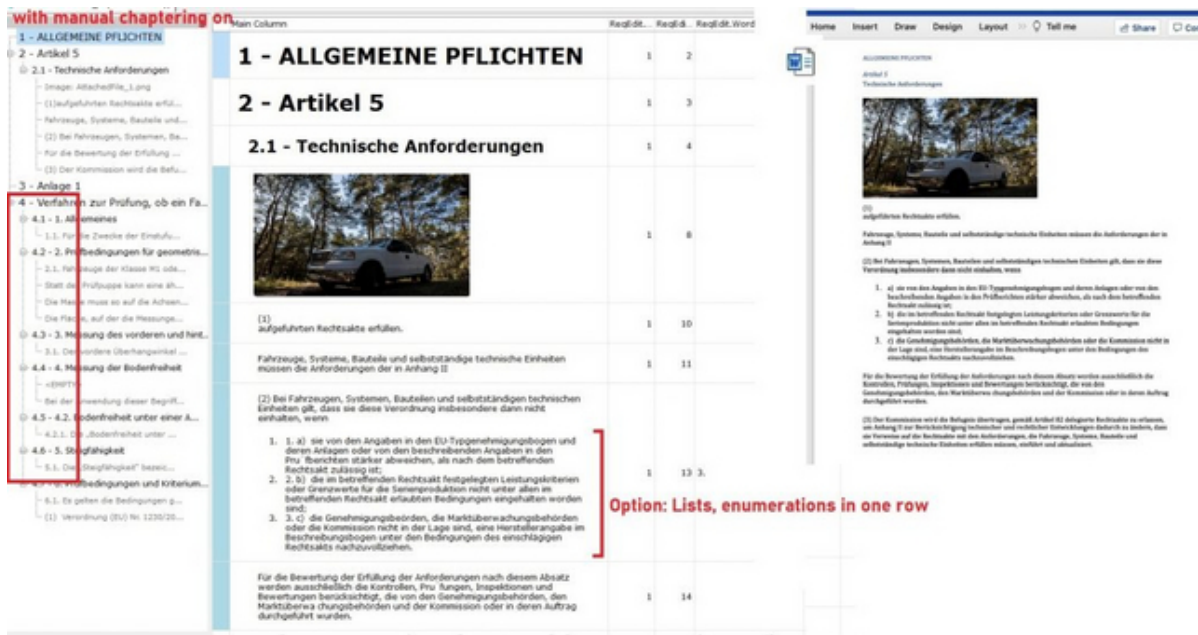
### Resulted ReqIF file after Word import

The resulted ReqIF file contains 5 new Attributes:

- Page - shows the page number in the Word file where the object/row is
- Paragraph - shows the number of paragraph in the Word. For details check the Reqedit/Systemlog/ReqEditEventLog file.
- Item number - shows the bullets or numbers of a list
- Footnote - shows the footnote related to the object in the Word file
- Comments - shows the comments related to the object in the Word file

Main Column	ReqEdit.Word.Page	ReqEdit.Word.Paragraph	ReqEdit.Word.ItemLabel	ReqEdit.Word.Comment	ReqEdit.Word.Footnote
<b>Template/Supporting Document Template Conventions</b>	2	16			
Three different styles of text are used in this template:					
1. [Text included in square brackets]					
This text represents document-specific information to be provided. Examples are (document name) for the name of the template/supporting document, and (purpose) for the purpose of the template/supporting document. Where this text appears, insert the document-specific information between the ***	2	20	1.		
2. {Italic text in braces}					
This text is guiding or explanatory in nature. It will include tailoring guidance and descriptions of the kinds of information to be included in each section. Therefore, this text should be deleted from the template/supporting	2	24	2.		
3. Normal text					
This is standard text that should be copied verbatim into the template/supporting document as necessary. It represents any text that ***	2	28	3.		
(Page intentionally left blank.	3	44			
Template begins on the following page.)	4	46			

New attributes in the ReqIFz file after importing a .doc file



Resulted ReqIF file screenshot after some import option settings

## Limitation of Word import

Currently the Word import has these limitations:

- Our current library has a very poor support of the DOCX format, so importing .docx is not supported; we are working on a new version which will omit this limitation
- Detection of form field, and draw (pen and marker) are not supported
- Importing files bigger as 150 MB not supported

## Excel spreadsheet Import

Excel spreadsheet import can support:

- Enabling roundtrip and
- Simple import with or without hierarchy

For roundtrip enabled import click on **File / Import** or **Add-ons / Excel Import** and choose the box Enable round trip in the Excel import wizard window.

For details on Excel Import click [1]here.

Excel Import

Excel File: \MELINDA General\Test Select Help

Sheet Configuration Excel sheet preview

Step 1: Sheet selection

SHEET 1

☐ Ignore Sheet

Step 2: Set header row

Header Row Number 1

From Row 2 Column 1

To Row 39 Column 20

Set value

Step 3: Configure attributes

Column	Name	Ignore column	Data type	Reference
1	Hierarchy ID	<input type="checkbox"/>	Integer	1
2	Unique ID	<input type="checkbox"/>	Integer	1
3	Object ReqIF ID	<input type="checkbox"/>	Text	_cf32d3f-86dd-4f...
4	ReqIF.ChapterName	<input type="checkbox"/>	Text	
5	ReqIF.Text	<input type="checkbox"/>	Text	
6	ReqIF.Name	<input type="checkbox"/>	Text	Name 1
7	Comment	<input type="checkbox"/>	Text	
8	Formulas	<input type="checkbox"/>	Text	
9	ReqEditID	<input type="checkbox"/>	Integer	20
10	ReqEditModifiedOn	<input type="checkbox"/>	Date	27.04.2022 17:4..
11	ReqEditModifiedBy	<input type="checkbox"/>	Text	Melinda

Step 4: Set main column (optional)

ChapterName

Level ID (opt.) <None>

Text

Step 5: Set id field (optional)

☐ Enable round trip

ID Field

Load config Save config Import Close

Copyright 2022 REQTEAM GmbH Licensed for:

## Excel Import Wizard

1. <https://documentation.reqteam.com/excel-importer-add-on/#Usage>

## Exporting (2021-07-26 10:20)

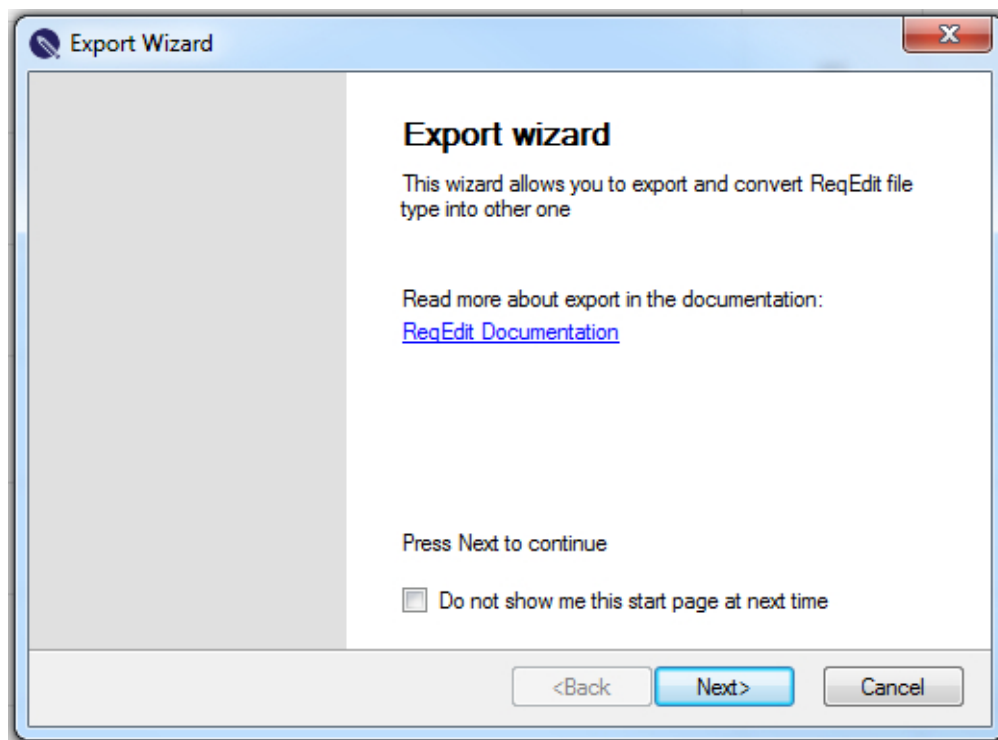
## RIF, ReqIF

If the files that the user edits or creates should be imported to IBM Rational DOORS (directly or via Atego Requirement Synchronizer), an export is necessary.

After editing and before importing to DOORS, you have to do an export by clicking on File->Export. During the export all the linked files will be wrapped in an OLE envelope. To protect the ReqEdit variant of the ReqIF file, the export function will ask the user for a new file name, where to save the DOORS variant. This new file can be imported to IBM Rational DOORS.

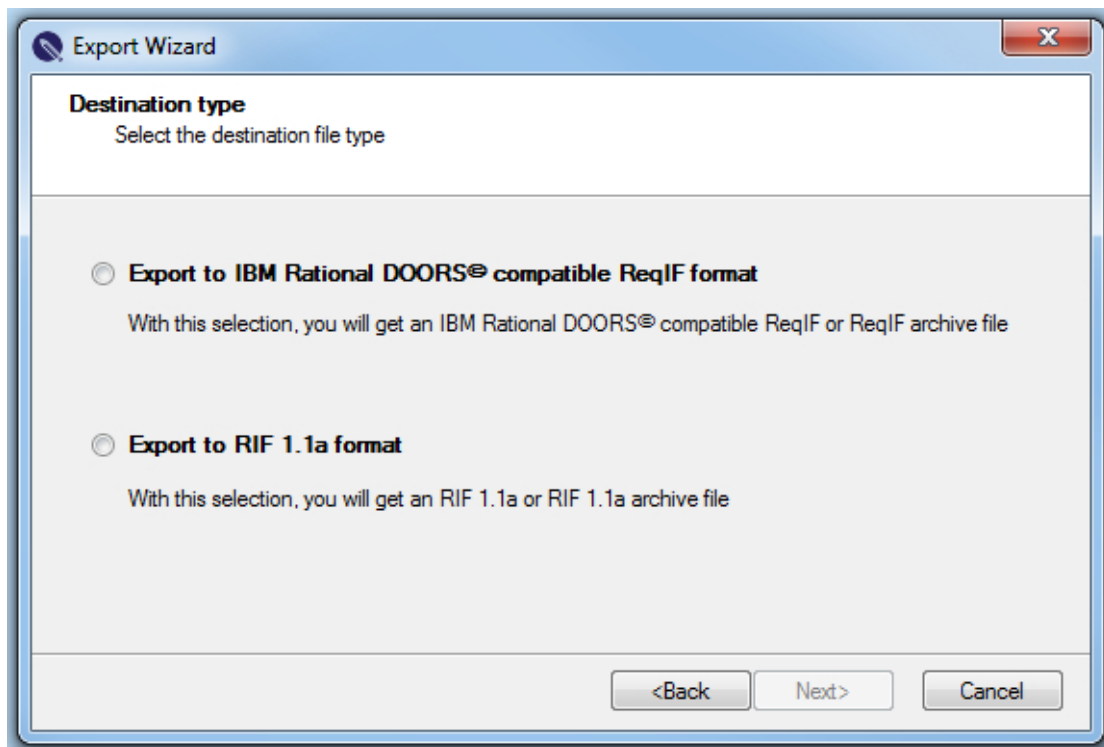
NOTE: IBM Rational DOORS version. 9.5.2 and Atego Requirements Synchronizer 2.4 have been tested.

By clicking the “Export” menu item, a wizard will be opened and guide you through the export process.

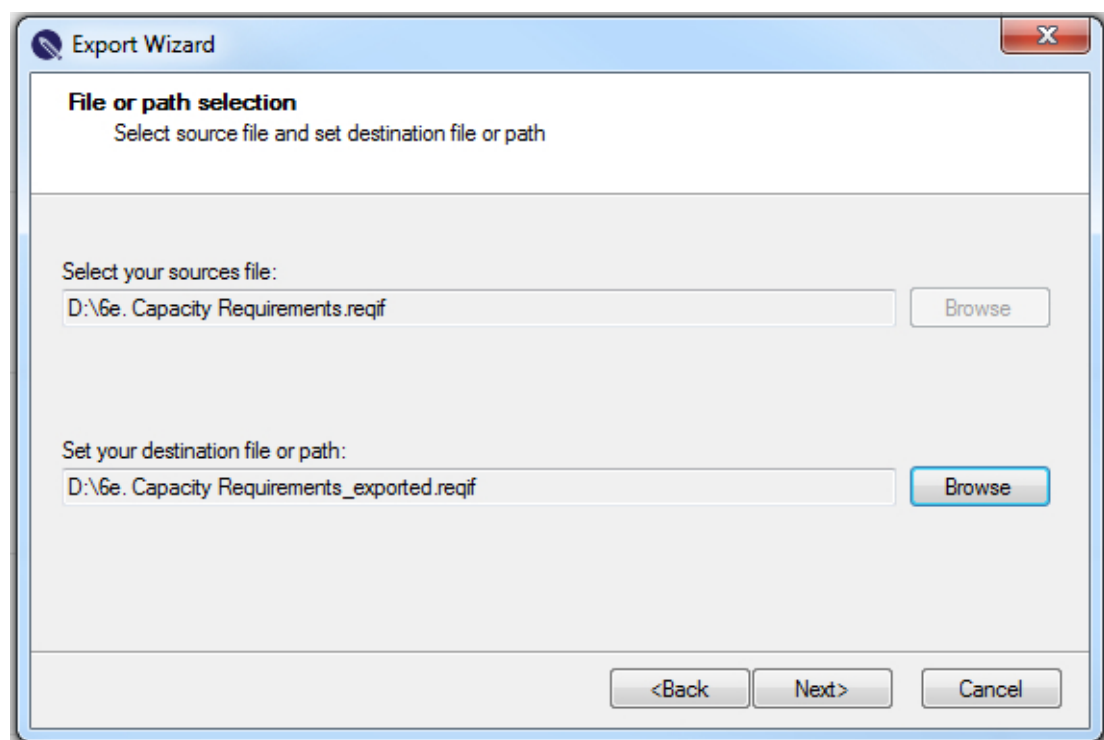


On the first page of the wizard you will find some information and a link to the documentation. By selecting the “Do not show me this start page next time” check-box, this page will not be shown anymore on the wizard start-up.

In the next page of the wizard, the format of the file you want to export has to be selected. The available options are “IBM Rational DOORS© compatible ReqIF format” and “RIF 1.1a format”.

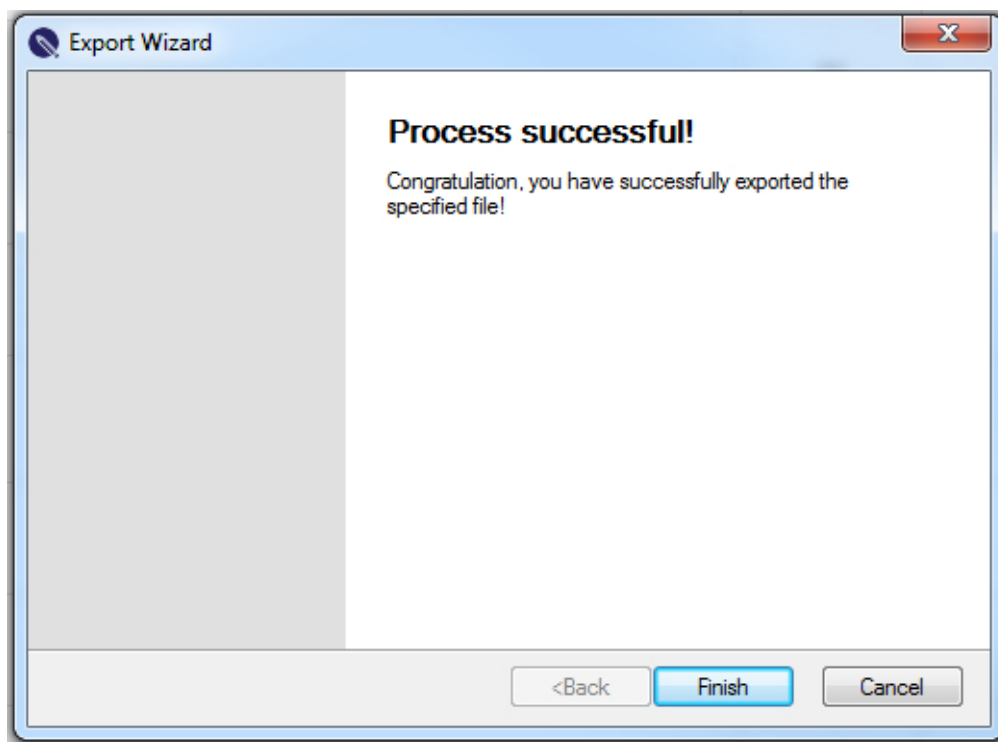


The following page lets you select the destination path and name for your output file. In case you want to export to RIF format and your file is a multi-document file, multiple .zip files will be created at export. In this case, only the destination folder can be selected and the file names will be assigned automatically.

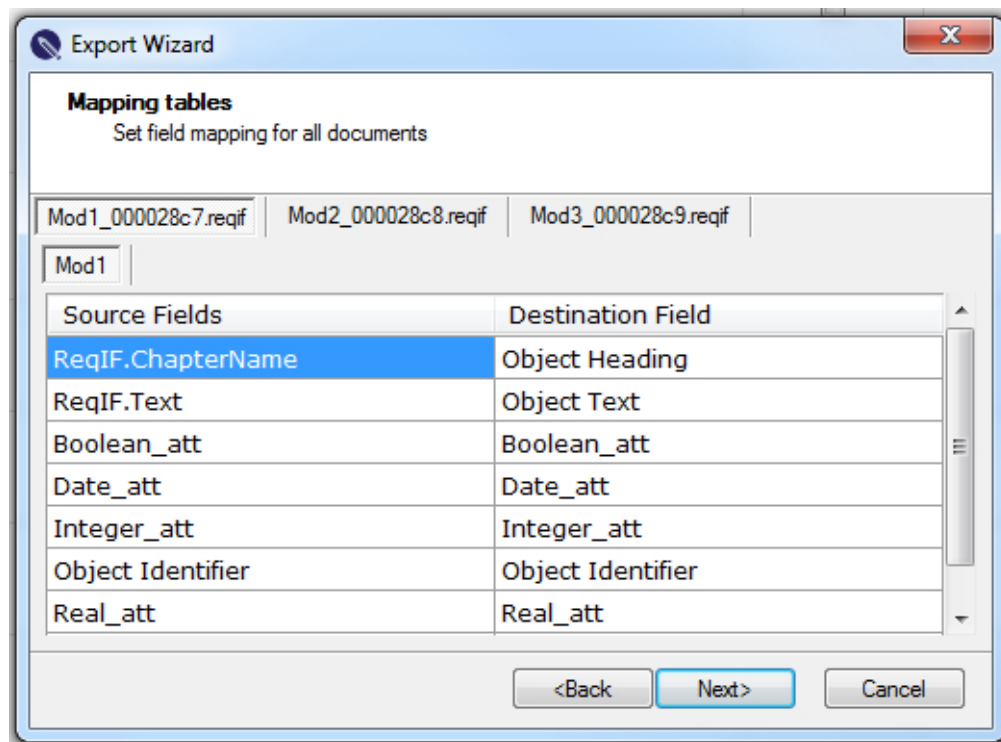


After selecting the file paths, the wizard will convert your file and a confirmation page will be displayed.

You can find your exported files in the destination directory you have specified on the previous page.



NOTE: If you export a file to RIF format, another page containing mapping tables will be displayed after you select the file paths. This page contains tabs for each file (in case of a multi ReqIF file archive) and for each document contained in the .reqif files. For each document you can set the destination attribute name for every source attribute.



## Configuration

This document is incomplete, we are working on making it better

Thank you ☺ for your understanding

TODO incomplete: needs config and export finish

### License Detach Utility (2021-07-26 10:52)

To be able to work outside of the restricted environment and self hosted license server, licenses can be locked for on the go usage. Each detached (locked) license will have an expiration period after which automatically will be restored and the PCs will not be able to use ReqEdit anymore.

Read more about [1]Detaching Tool setting

For detaching another license the PC has to be inside the network after which the detachment can be done again.

## Environment

ReqEdit is used inside a restricted network where the PCs cannot access ReqEdit License Server, a self hosted network license server is used. This server holds all the license pools available to the network.

When ReqEdit has to be used outside this environment a license can be locked and detached for on-the-go usage.

**NOTE: Detaching has to be done inside the restricted network before disconnecting.**

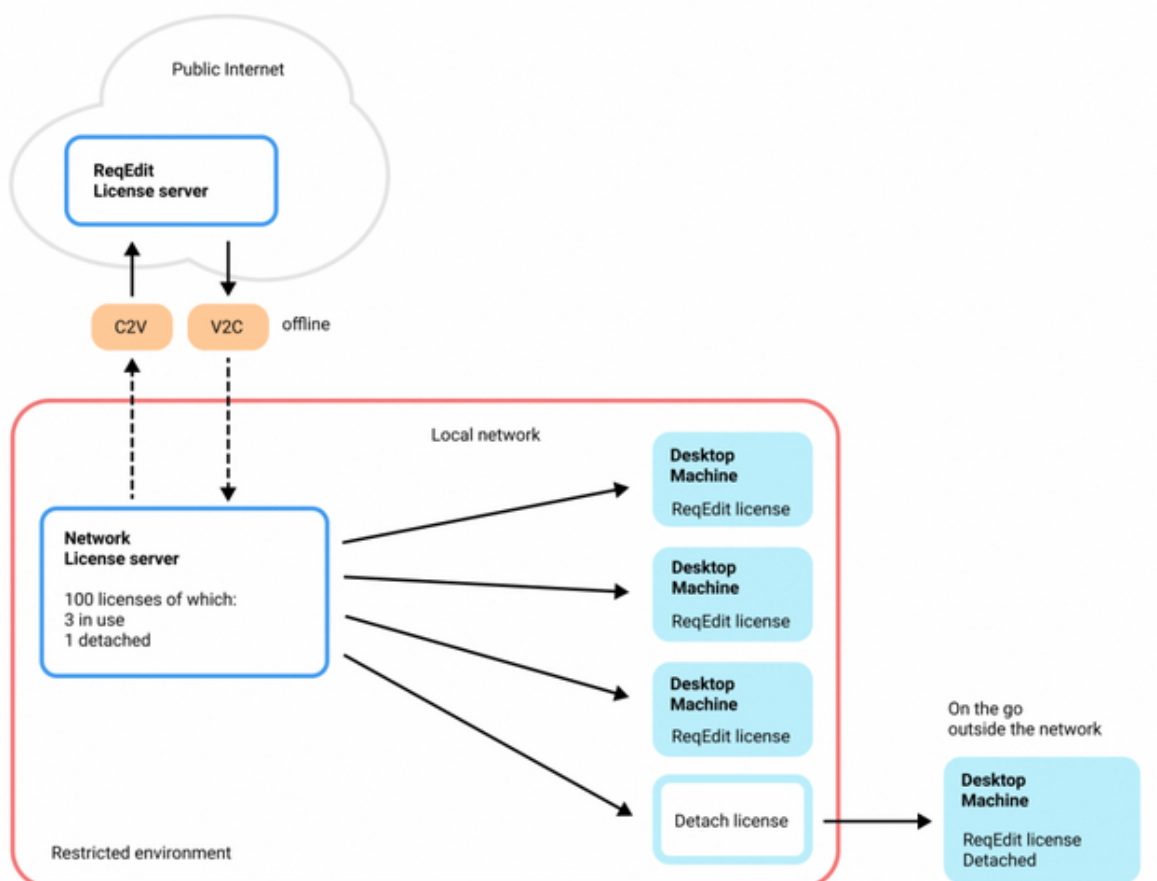
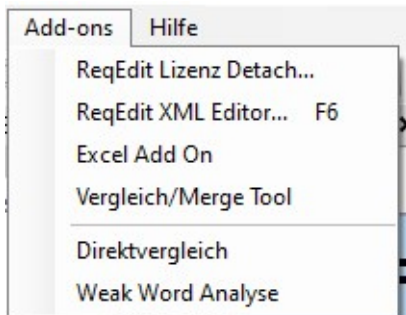


Diagram showing ReqEdit usage in a restricted environment where a stand-alone license server is used,  
detaching a license for on the go usage

## Work on-the-go

### Detaching licenses from network server

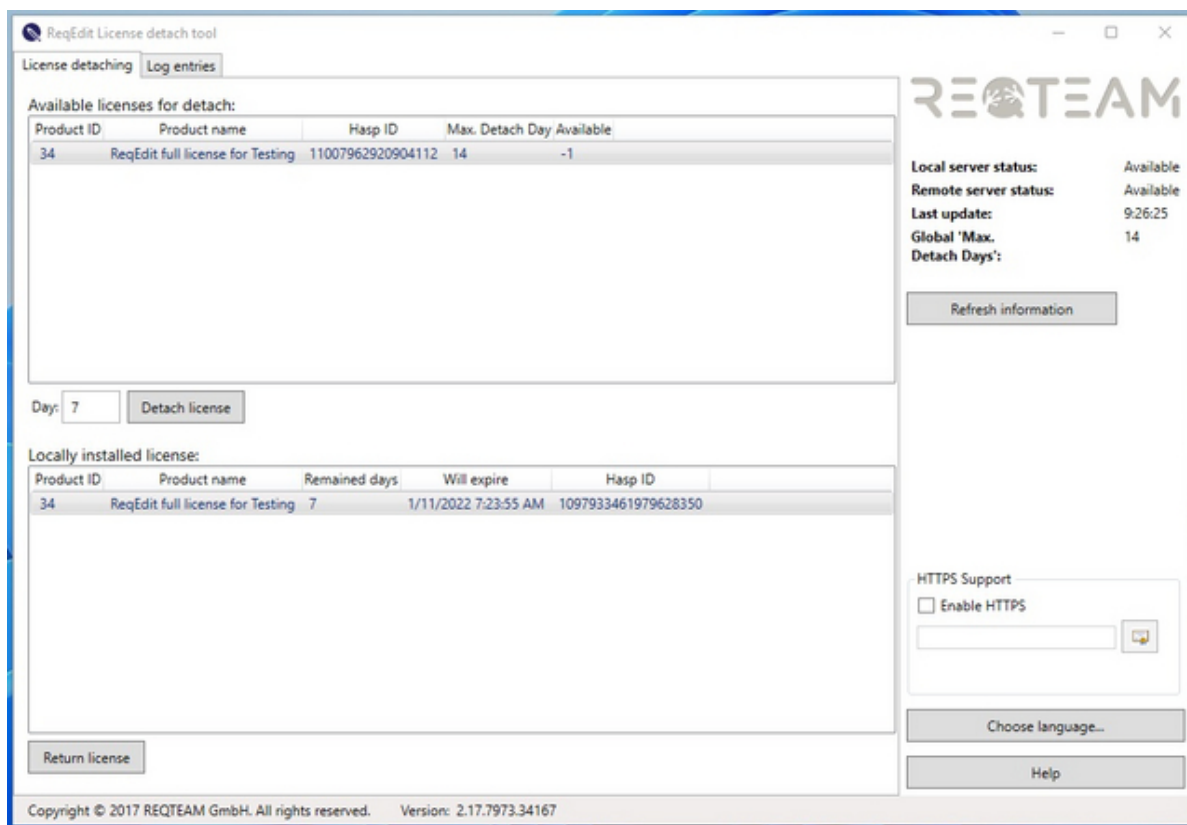
Start the tool by selecting Add-ons > License Detach from the top menu



Detach Tool Add-On Tab

License Detach tool add-on will be displayed. The available number of licenses will be listed in the window (refreshed every 20 seconds).

Select the license that needs to be taken out and configure the period.



Detach tool add-on window

Press **Detach license** to reserve a license and take it out.

Locally installed license:

Product ID	Product name	Remained days	Will expire	Hasp ID
34	ReqEdit full license for Testing	7	1/11/2022 7:23:55 AM	1097933461979628350

Detach tool displaying a detached license

ReqEdit can be used on the go for the configured period, after which the license will expire and cannot be used. Another license has to be detached again from inside the network.

## Logging

The **Log entries** tab displays the last 100 messages in reverse order. To get the complete log message click on **Open full log file** on the bottom of the page.

1. <https://documentation.reqteam.com/activation/#License-detaching>

---

## Requirement Templates (2021-07-26 10:54)

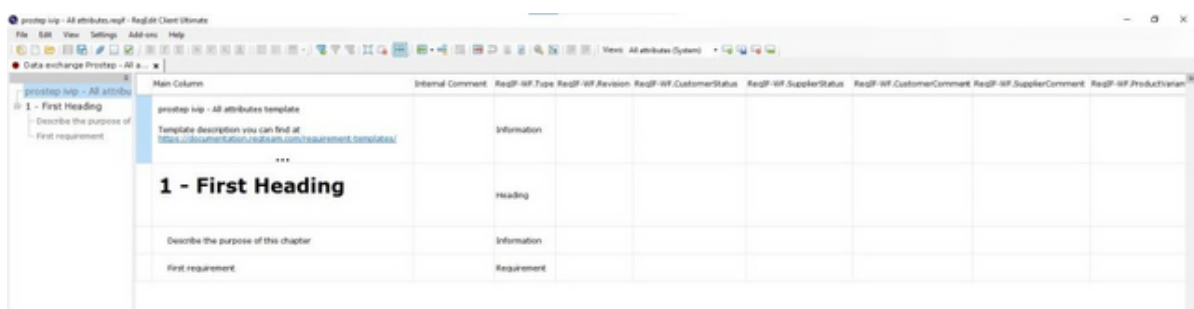
# Templates for Requirement Engineering

ReqEdit offers templates for different use cases between customer and supplier according to [1]Prostep[2] ivip Recommendations. Please keep in mind that only ReqIF Archives (.reqifz) supports images/file attachments.

To open a template click **File / New Archive ...** You can select from different templates.

## Template prostep ivip - All attributes

You can use this template in relation with your suppliers for request clarification for a single product variant use case.



## Template prostep ivip - All attributes

The template includes the necessary attributes, as

Customer status, with the options Not To Evaluate / To Evaluate / Accepted / Not accepted / To be clarified / Proposed to discard / Discarded.

Supplier status, with the options Agreed / Not Agreed / Agreed with comment/ To be clarified / Discard Deployed.

The attributes of this specification documents are:

Long Name	Custom Type	Data Type	Last Change	Is editable
ReqIF.ChapterName	Text	XHTML	15.04.2022	✓
ReqIF.Name	Text	XHTML	15.04.2022	✓
ReqIF.Text	Text	XHTML	15.04.2022	✓
Internal Comment	Text	XHTML	15.04.2022	✓
ReqEditID	Integer	INTEGER	15.04.2022	✗
ReqEditModifiedOn	Date	DATE	15.04.2022	✗
ReqEditModifiedBy	String	STRING	15.04.2022	✗
ReqIF.ForeignDeleted	Boolean	BOOLEAN	15.04.2022	✗
ReqIF-WF.Type	Type	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓
ReqIF-WF.Revision	String	STRING	15.04.2022	✓
ReqIF-WF.CustomerStatus	CustomerStatus	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓
ReqIF-WF.SupplierStatus	SupplierStatus	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓
ReqIF-WF.CustomerComment	Text	XHTML	15.04.2022	✓
ReqIF-WF.SupplierComment	Text	XHTML	15.04.2022	✓
ReqIF-WF.ProductVariant	ProductVariant	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓

Attributes added in the template prostep ivip - All attributes

## Template prostep ivip - with Product variant

This template helps tracking the statuses of requests if there are more product variants.

The attributes Customer status and Supplier status have the same values as in case of template Template prostep ivip - All attributes.

Internal Comment	ReqIF-WF.Type	ReqIF-WF.CustomerStatus	ReqIF-WF.SupplierStatus	ReqIF-WF.CustomerComment	ReqIF-WF.SupplierComment	ReqIF-WF.ProductVariant
1 - First Heading						
Describe the purpose of this chapter						
First requirement						

Template prostep ivip - with Product variant

Attribute Types	Attributes	Document	Links	
Long Name	Custom Type	Data Type	Last Change	Is editable
ReqIF.ChapterName	Text	XHTML	15.04.2022	✓
ReqIF.Name	Text	XHTML	15.04.2022	✓
ReqIF.Text	Text	XHTML	15.04.2022	✓
Internal Comment	Text	XHTML	15.04.2022	✓
ReqEditID	Integer	INTEGER	15.04.2022	✗
ReqEditModifiedOn	Date	DATE	15.04.2022	✗
ReqEditModifiedBy	String	STRING	15.04.2022	✗
ReqIF.ForeignDeleted	Boolean	BOOLEAN	15.04.2022	✗
ReqIF-WF.Type	Type	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓
ReqIF-WF.CustomerS...	CustomerStatus	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓
ReqIF-WF.SupplierSta...	SupplierStatus	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓
ReqIF-WF.CustomerC...	Text	XHTML	15.04.2022	✓
ReqIF-WF.SupplierCo...	Text	XHTML	15.04.2022	✓
ReqIF-WF.ProductVari...	ProductVariant	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓

Attributes added in the template prostep ivip - with Product variant








## Template prostep ivip - with Revision

This template includes an attribute Revision, for use cases where they are needed. The attributes Customer status and Supplier status have the same values as in case of template Template prostep ivip - All attributes.

The screenshot shows the ReqIF Client Ultimate interface. The main window displays a template with the following structure:

Main Column	Internal Comment	ReqIF-Of Type	ReqIF-Of Revision	ReqIF-Of CustomerStatus	ReqIF-Of SupplierStatus	ReqIF-Of CustomerComment	ReqIF-Of SupplierComment
1 - First Heading	Template description you can find at <a href="https://documentation.reqif.com/requirement-templates/">https://documentation.reqif.com/requirement-templates/</a>	Information					
1 - First Heading		Heading					
Describe the purpose of this chapter		Information					
First requirement		Requirement					

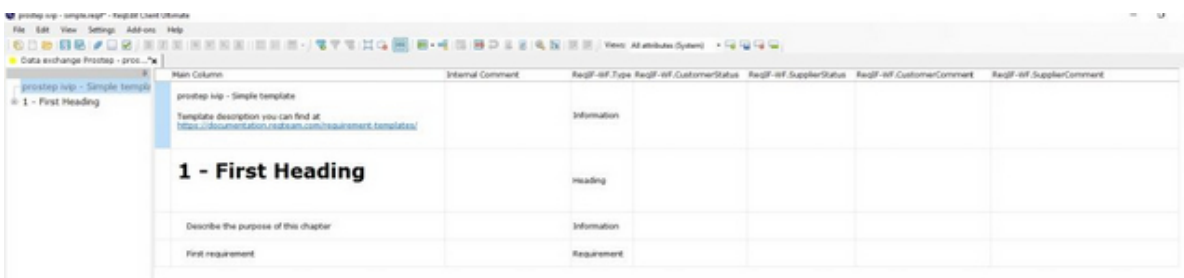
Template prostep ivip - with Revision

Attribute Types	Attributes	Document	Links	
Long Name	Custom Type	Data Type	Last Change	Is editable
 ReqIF.ChapterName	Text	XHTML	15.04.2022	✓
 ReqIF.Name	Text	XHTML	15.04.2022	✓
 ReqIF.Text	Text	XHTML	15.04.2022	✓
Internal Comment	Text	XHTML	15.04.2022	✓
 ReqEditID	Integer	INTEGER	15.04.2022	✗
 ReqEditModifiedOn	Date	DATE	15.04.2022	✗
 ReqEditModifiedBy	String	STRING	15.04.2022	✗
 ReqIF.ForeignDeleted	Boolean	BOOLEAN	15.04.2022	✗
ReqIF-WF.Type	Type	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓
ReqIF-WF.Revision	String	STRING	15.04.2022	✓
ReqIF-WF.CustomerStatus	CustomerStatus	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓
ReqIF-WF.SupplierStatus	SupplierStatus	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓
ReqIF-WF.CustomerComment	Text	XHTML	15.04.2022	✓
ReqIF-WF.SupplierComment	Text	XHTML	15.04.2022	✓

Attributes added in template prostep ivip - with Revision








## Template prostep ivip - simple

This template includes only the main attributes of a requirement document. The attributes Customer status and Supplier status have the same values as in case of template Template prostep ivip - All attributes. Attributes as Revision or Product variant are not included.



Main Column	Internal Comment	ReqIF-WF.Type	ReqIF-WF.CustomerStatus	ReqIF-WF.SupplierStatus	ReqIF-WF.CustomerComment	ReqIF-WF.SupplierComment
prostep ivip - Simple template	prostep ivip - Simple template	Information				
1 - First Heading	Template description you can find at <a href="https://documentation.requirement.com/requirement-templates/">https://documentation.requirement.com/requirement-templates/</a>	Heading				
	Describe the purpose of this chapter	Information				
	First requirement	Requirement				

Template prostep ivip - simple

Attribute Types	Attributes	Document	Links		
	Long Name	Custom Type	Data Type	Last Change	Is editable
	ReqIF.ChapterName	Text	XHTML	15.04.2022	✓
	ReqIF.Name	Text	XHTML	15.04.2022	✓
	ReqIF.Text	Text	XHTML	15.04.2022	✓
	Internal Comment	Text	XHTML	15.04.2022	✓
	ReqEditID	Integer	INTEGER	15.04.2022	✗
	ReqEditModifiedOn	Date	DATE	15.04.2022	✗
	ReqEditModifiedBy	String	STRING	15.04.2022	✗
	ReqIF.ForeignDelet...	Boolean	BOOLEAN	15.04.2022	✗
	ReqIF-WF.Type	Type	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓
	ReqIF-WF.Custome...	CustomerStatus	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓
	ReqIF-WF.Supplier...	SupplierStatus	ENUMERATION MULTIVALUED: FALSE	15.04.2022	✓
	ReqIF-WF.Custome...	Text	XHTML	15.04.2022	✓
	ReqIF-WF.Supplier...	Text	XHTML	15.04.2022	✓

Attributes added in template prostep ivip - simple

## Agile templates

We recommend to use ReqIFz (archive) for the following templates. You can add each of the templates to a single Archive with **File / Add -> New document to the current file**. So it's possible to link user stories, bugs and test cases and add images/ file attachments.

## Scrum - Backlog

This template can be used to have a list of the client's requirements. You can write epics, user stories, or just mark text as information or heading (in the *Type* column). Different colors for each status help visually the user. Each requirement can have different status: *New / Draft / Final / In Progress / Obsolete / Implemented / Duplicate*. The template includes also "*Business Value*" and "*Definition of Done*" Columns.

Main Column	Description	Type	Status	Business Value	Definition of Done
Template for Backlog documentation	Template description you can find at <a href="https://documentation.req4it.com/requirement-templates/">https://documentation.req4it.com/requirement-templates/</a>				
<b>1 - Backlog</b>		Heading			
The program should start on windows		Epic	New		
As a user of the program I want to be able to start the program on Windows 10.		User Story	Draft		

Template Scrum - Backlog

## Scrum - Buglist

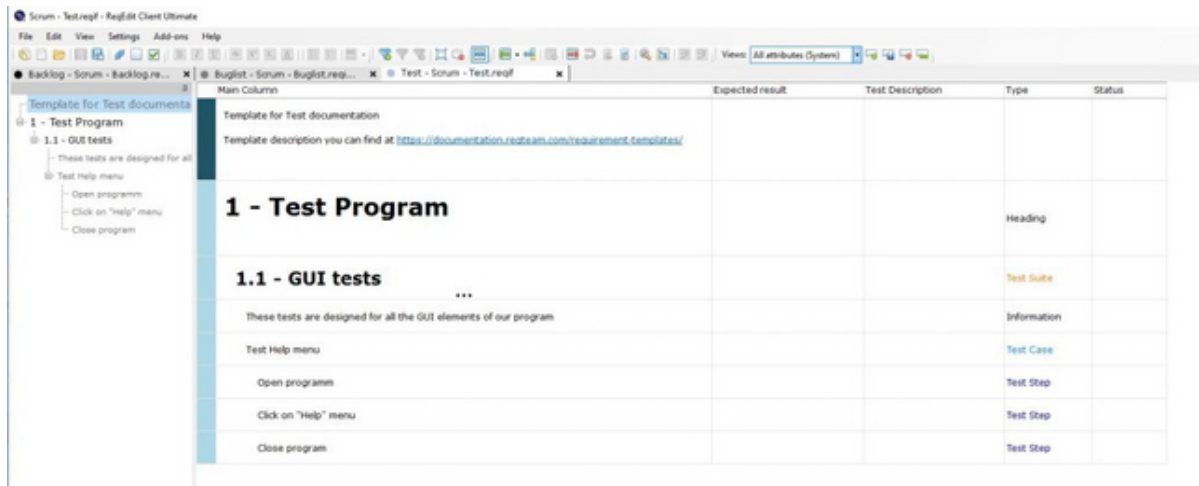
This template collects and lists the bugs reported by users / customers / internal stakeholders. The user of the template can set in the Type column Bug / Heading / Information. The column Status can be set as New / Open / In implementation / Solved / Not Fixed. The Column Scope can be set as Installer / GUI / Business logic / Plugins. There are two additional attributes to add the sprint number/iteration, when a bug is fixed, and also a Bug identifier.

Main Column	Description	ReqID	Type	Status	Scope	Internal Comments	Bug Identifier	Fixed in Sprint
Template for Buglist	Template description you can find at <a href="https://documentation.req4it.com/requirement-templates/">https://documentation.req4it.com/requirement-templates/</a>	5						
<b>1 - Buglist</b>		2	Heading					
This is a generic list of all bugs		4	Information					
The program does not show current data.		3	Bug	Open	GUI	John: we should adapt the unit testing		

Template Scrum - Backlog

## Scrum Test

This template can be used for test documentation. The column Type can set texts as Heading / Information / Test Suite / Test Case / Test step. The Column Status sets as New / Draft / Final / Obsolete / Duplicate. The template includes place for Test description and Expected results.



## Template Scrum - Test

1. [https://www.prostep.org/fileadmin/downloads/Recommendation\\_ReqIF\\_V2.1\\_final.pdf](https://www.prostep.org/fileadmin/downloads/Recommendation_ReqIF_V2.1_final.pdf)
2. [https://www.prostep.org/fileadmin/downloads/Recommendation\\_ReqIF\\_V2.1\\_final.pdf](https://www.prostep.org/fileadmin/downloads/Recommendation_ReqIF_V2.1_final.pdf)

## License activation (2021-07-26 10:54)

General overview about the license activation options. For more details, click [1]here.

## Automatic activation

Activation is automatic for trial version and for some custom-tailored versions.

## Online activation

(Public environment, internet/online access with no restriction)

The License activator window appears. In the text box enter the Product key and press the Activate button

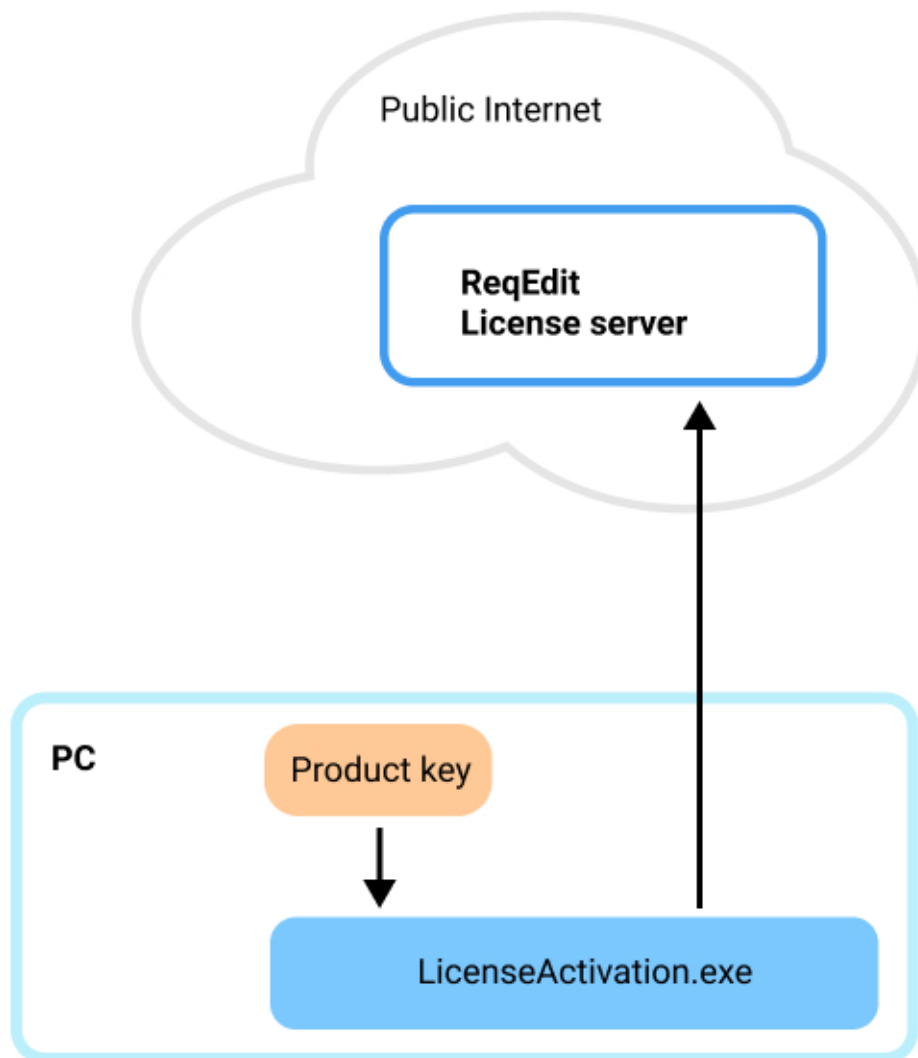


Diagram of public environment with direct connection to ReqEdit License Server

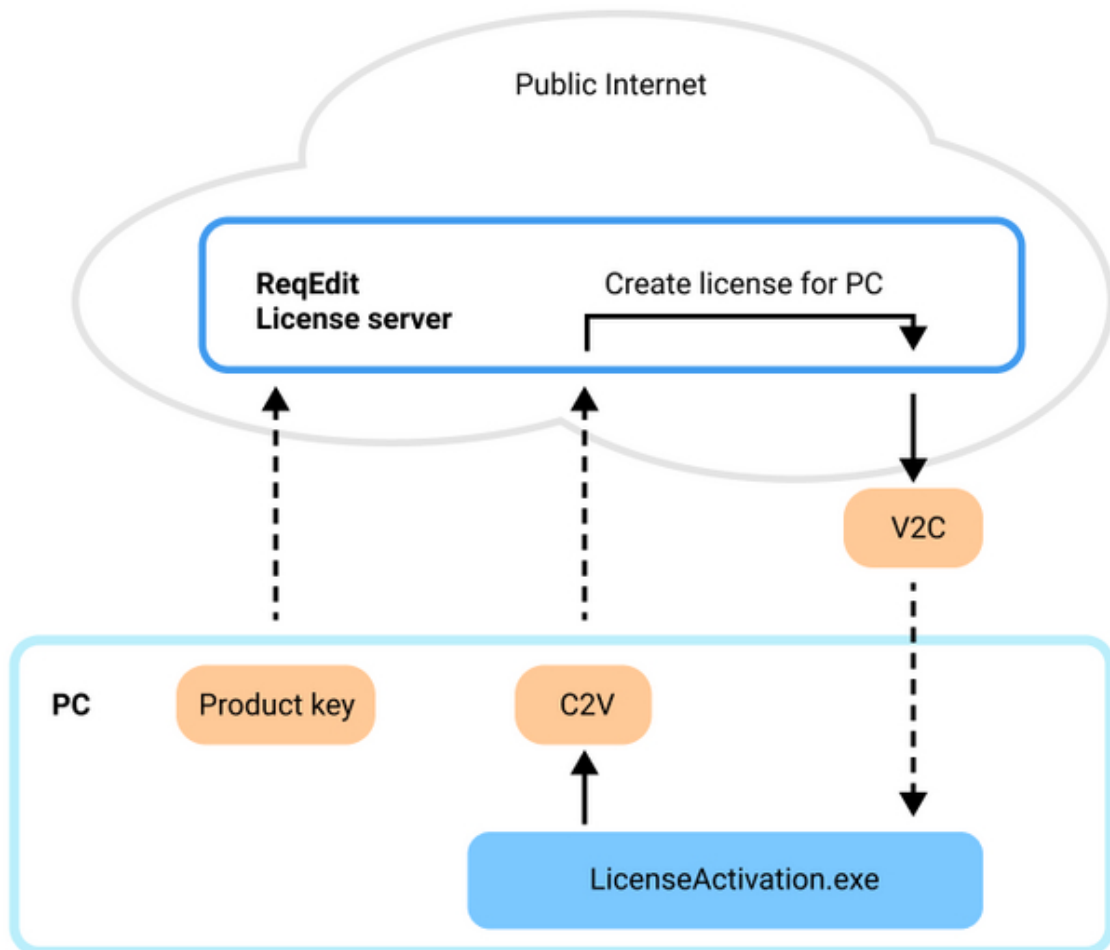
Follow the [2]Activation steps

## Offline activation

(Limited environment, with restriction on internet/online access)

## LicenseActivation.exe

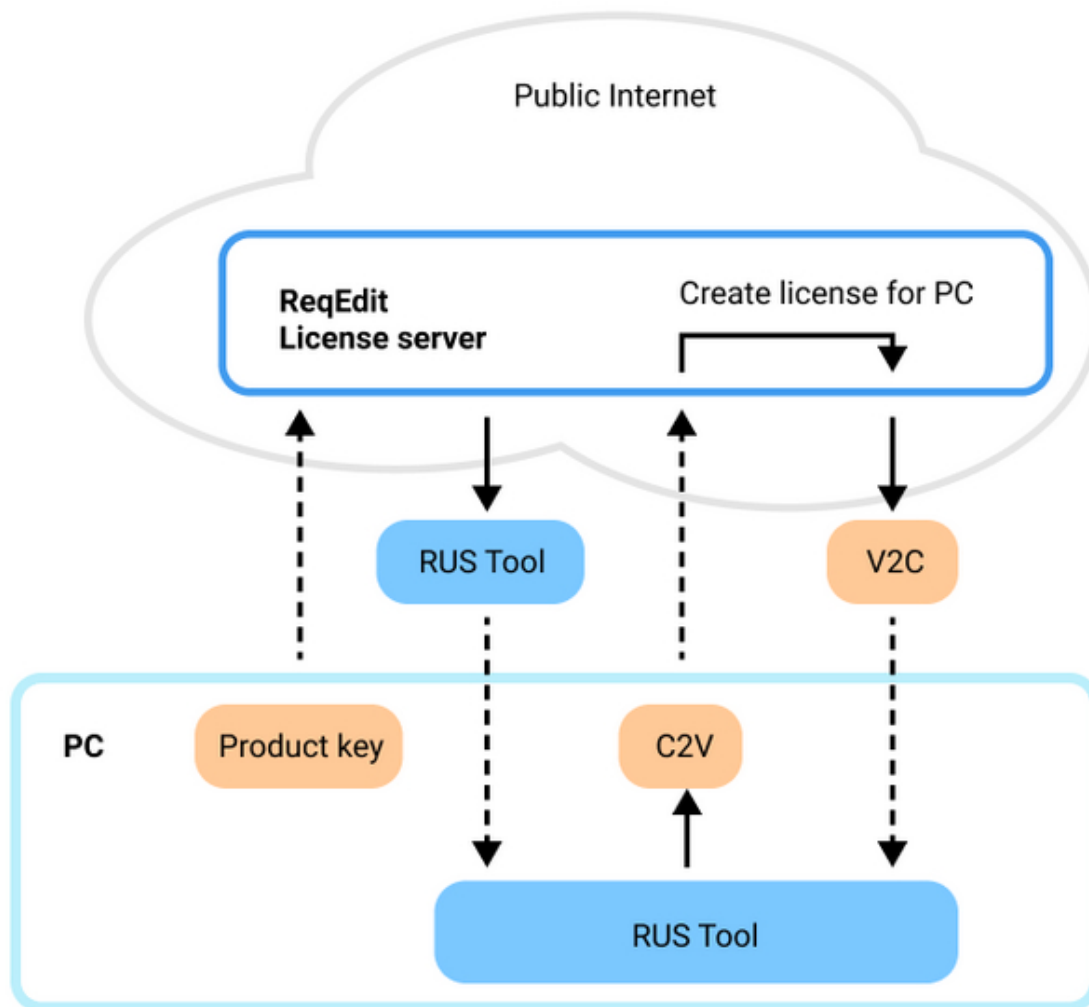
Access to ReqEdit License Server is restricted or not available. Manually activate license for the machine where ReqEdit is running.



Offline activation with LicenseActivation.exe

Offline Activation with [3]LicenseActivation.exe

RUS Tool



Offline activation with RUS tool downloaded from the ReqEdit License Server

Offline Activation with [4]RUS tool

## Network license server ACC

(Public internet access is restricted due to internal security policies, and only a local license server is accessible)

A self-hosted licensing server is installed on the restricted network. The server holds all the ReqEdit licenses, that can be accessed from any workstation inside the company network (no local license installation necessary).

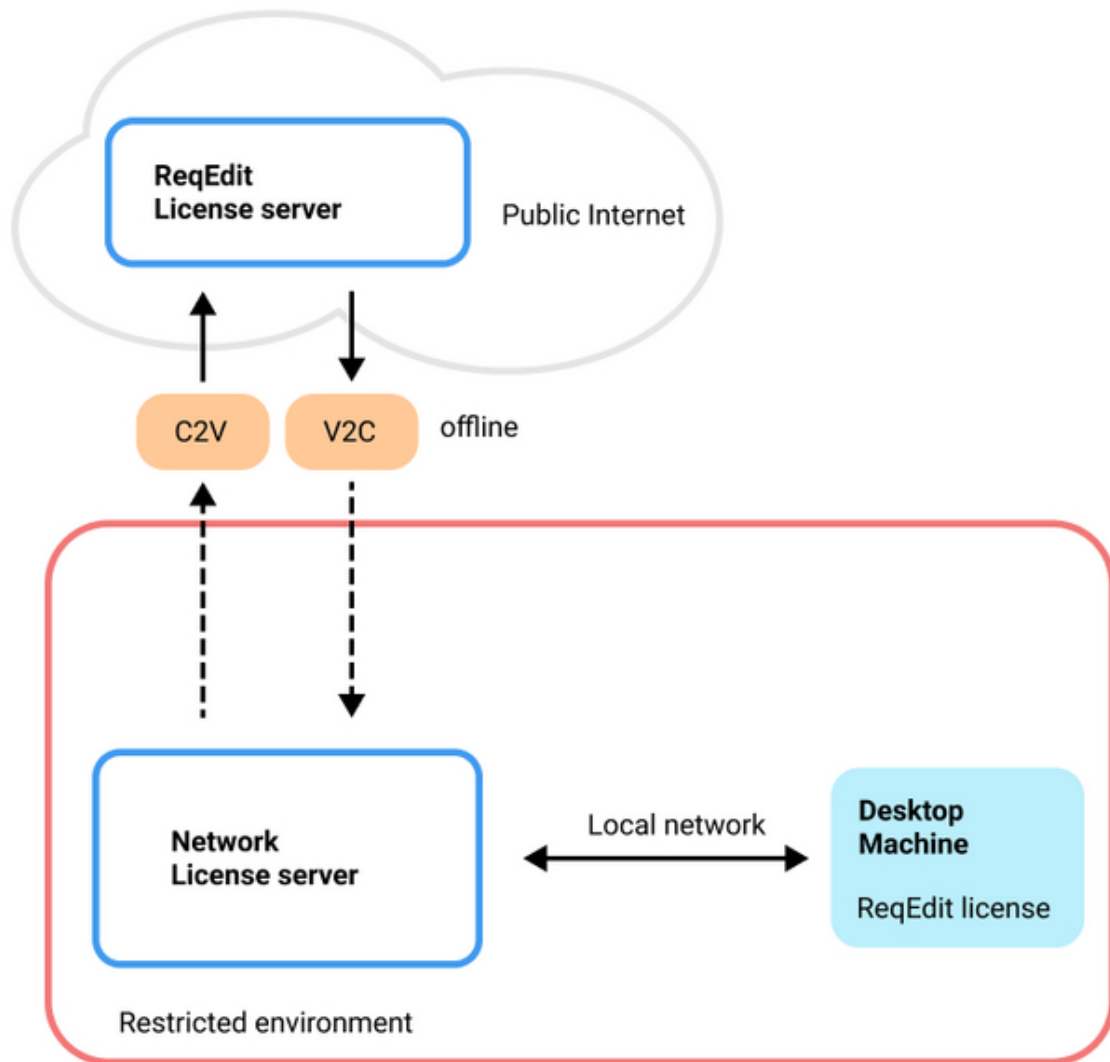


Diagram of restricted environment with self hosted ReqEdit License Server

Setting up the **[5]Network license server**

## License detaching

Note: please inform REQTEAM if you plan to use detaching, so the license can be generated for this purpose.

When users want to have a working copy of ReqEdit outside the restricted environment.

License detaching is possible by using the Detach Tool Add-on.

Detaching licenses will lock the license for a period of time for a specific machine. Locking a license has to be done inside the restricted environment, after which it can be disconnected from the network.

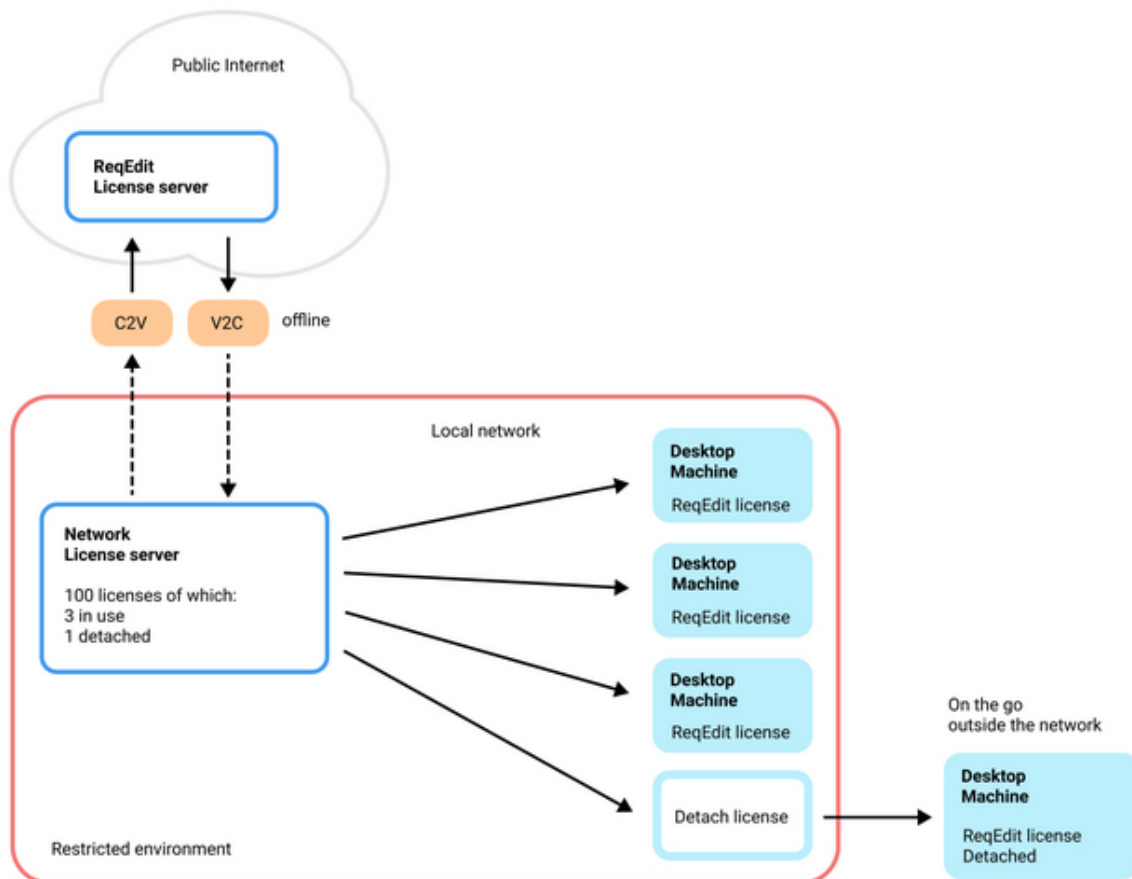


Diagram showing detach mechanism to work outside network license server

## [6]License detaching

1. <https://documentation.reqteam.com/license-management/>
2. <https://documentation.reqteam.com/activation/#Online-activation>
3. <https://documentation.reqteam.com/activation/#Activate-with-LicenseActivation.exe>
4. <https://documentation.reqteam.com/activation/#Activate-with-RUS-Tool>
5. [https://documentation.reqteam.com/activation/#Self-hosted-license-server-\(Network-license\)](https://documentation.reqteam.com/activation/#Self-hosted-license-server-(Network-license))
6. <https://documentation.reqteam.com/activation/#License-detaching>

---

## Batch Mode Automatization (2021-07-26 10:55)

ReqEdit can be used without GUI in a command line to import or export ReqIF files.

Batch mode functionality:

- Import RIF1.1a to ReqIF
- Export ReqIF to RIF1.1a
- Import from MS Word (.docx) to ReqIF
- REQXML to ReqIF, [1]read the xml format specification

## Examples

Import from a RIF11a to a ReqIF file

```
ReqEdit.exe -batch -in "D:\Workplace\Input Folder\requirements.zip" -out  
"D:\Workplace\Output Folder" -mapping "D:\ Workplace\RifToReqif.txt" -jobid  
"001" -logfile "D:\Workplace\Log.txt"
```

Export from a ReqIF to a RIF11a file

```
ReqEdit.exe -batch -in "D:\Workplace\Input Folder\requirements.reqifz" -out  
"D:\Workplace\Output Folder" -mapping "D:\ Workplace\ReqifToRif.txt" -jobid  
"002" -outtype RIF11a -logfile "D:\Workplace\Log.txt"
```

Export from a ReqIF to a REQIF DNG file (obsolete)

```
ReqEdit.exe -batch -in "D:\Workplace\Input Folder\requirements.reqifz" -out  
"D:\Workplace\Output Folder" -jobid "003" -outtype REQIFDNG -logfile  
"D:\Workplace\Log.txt"
```

Import from a Word .docx to a ReqIF file

```
ReqEdit.exe -batch -in "D:\Workplace\Input Folder\requirements.docx" -out  
"D:\Workplace\Output Folder" -mapping "D:\Workplace\WordToReqif.txt" -jobid  
"004" -logfile "D:\Workplace\Log.txt" --keep hierarchy  
-removechapternumberings --tables --attachments --images -attributetable row
```

Import from REQXML to ReqIF file, read more here: [2]**REQXML format**

```
ReqEdit.exe -batch -in "D:\Workplace\Input Folder\requirements.reqxml"  
-out "D:\Workplace\Output Folder" -jobid "003"  
-mapping "D:\Workplace\ReqXmltoReqIF.txt" -logfile "D:\Workplace\Log.txt"
```

## Parameters

**General batch parameters** **-batch** mandatory

enable batch mode without displaying GUI

**-in** mandatory

indicates the input file

**-out** mandatory

indicates the output folder

**-mapping** optional

used only for ReqIF RIF conversions

if a mapping is not specified, the default mapping of the system attributes is used

**-jobid** optional

sets a custom prefix for the output file

if not set, the output file will have a datetime prefix

**-logfile** optional

indicate the absolute path to the user desired logfile

if the logfile already exists, the new information will be appended

if not specified, the logs will be written to the standard ReqEdit log

**ReqIF and RIF import/export parameters** **-outtype** indicate the output type

possible values are "RIF11a", "REQIF" or "REQIFDNG" for Rational DOORS Next Generation compatible files

**Word import parameters** **-keep hierarchy** optional

will recreate the parent/child hierarchy in the Word file based on Heading levels. If not enabled, all Headings will be displayed on the first level

**-removechapternumberings** optional

removes manual chapter numberings

**-tables** optional

all tables will be converted to a ReqIF compatible (HTML) table, else all tables in the file will be ignored

**-attachments** optional

embedded objects (Word (rtf, doc, docx), Excel (xls, xlsx), Powerpoint (ppt, pptx)) in the Word document will be imported to ReqIFz file and referenced inside the ReqIF object, else

all objects in the Word file will be ignored

**-images** optional

embedded images (JPG, PNG, BMP) in the Word document will be imported to ReqIFz file and referenced inside the ReqIF object, else all images in the Word file will be ignored

**-attributetable** optional

possible values "row" or "column"

the word document parser will look in the first row/column of all tables for the values given in the mapping file to assert if the table should be treated as an attribute table

**NOTE: Parameter values which contain empty spaces or special characters like slash, backslash and others, need to be written between quotes**

## Mapping file

The mapping files are used to translate attribute names from RIF to ReqIF standard and vice-versa. The mapping file is a simple .txt file with the format shown below in two examples with IBM DOORS system attribute names and two custom attributes displayed with red text.

### Example of a RifToReqif mapping file

```
Absolute Number - ReqIF.ForeignID
Created By - ReqIF.ForeignCreatedBy
Created On - ReqIF.ForeignCreatedOn
Created Thru - ReqIF.ForeignCreatedThru
Last Modified By - ReqIF.ForeignModifiedBy
Object Heading - ReqIF.ChapterName
Object Number - ReqIF.ChapterNumber
Object Short Text - ReqIF.Name
Object Text - ReqIF.Text
Description - ReqIF.Description
Customer_Description - Supplier_Description
Customer_Status - Supplier_Status
```

### Example of a ReqifToRif mapping file

```
ReqIF.ForeignID - Absolute Number
ReqIF.ForeignCreatedBy - Created By
ReqIF.ForeignCreatedOn - Created On
ReqIF.ForeignCreatedThru - Created Thru
ReqIF.ForeignModifiedBy - Last Modified By
ReqIF.ChapterName - Object Heading
ReqIF.ChapterNumber - Object Number
ReqIF.Name - Object Short Text
ReqIF.Text - Object Text
ReqIF.Description - Description
Supplier_Description - Customer_Description
Supplier_Status - Customer_Status
```

### Example of a WordToReqif mapping file

```
ID | ReqIF.ForeignID | integer
```

Heading	ReqIF.ChapterName	text
Text	ReqIF.Text	text
Customer_Desc	Supplier_Descr	text
Release Date	Release Date	date: dd.MM.yyyy
Price	Price	real: .

Example of a REQXML to ReqIF mapping file

```
Last Modified By - ReqIF.ForeignModifiedBy
Object Heading - ReqIF.ChapterName
Object Number - ReqIF.ChapterNumber
Object Short Text - ReqIF.Name
Object Text - ReqIF.Text
Customer_Description - Supplier_Description
Customer_Status - Supplier_Status
```

## REQXML

This is a simplified custom XML format to speed up data exchange to ReqIF format. Read here the [3]REQXML documentation.

## Output files

If the target type is ReqIF or ReqIF DNG, there will be only one output file (reqif or reqifz)

If the target type is single Spec RIF, there will be only one output file (xml or zip)

If the target type is multi Spec RIF, there will be one output file for each Specification (xml or zip); the file names will contain the names of the specifications

## Logging

For each batch operation, an entry will be added to the logfile. Each entry will contain the date and time of the operation, the input and output file(s) path and names, the output file(s) type and the job ID.

If an error occurs during the operation, the report will include an exit code and message. You can see the complete list of exit codes and messages below.

**General Exit Codes** 5 Batch Feature ID is missing

10 Error during Conversion

20 Mandatory Parameter "batch" is missing

21 Mandatory Parameter "in" is missing

22 Mandatory Parameter "out" is missing

23 Invalid output type value

24 Job id can not be empty

25 Has invalid parameter

26 Incompatible output type value

**Input File Related Exit Codes** 110 Input File is not readable or does not exist

120 Input File has not defined type (Autodetection fails)

130 Input File is not valid (Schema validation fails)

**Output File Related Exit Codes** 210 Not enough space in output folder (3\*size of input file required to be free)  
220 Output folder is not writable  
240 Output folder does not exist

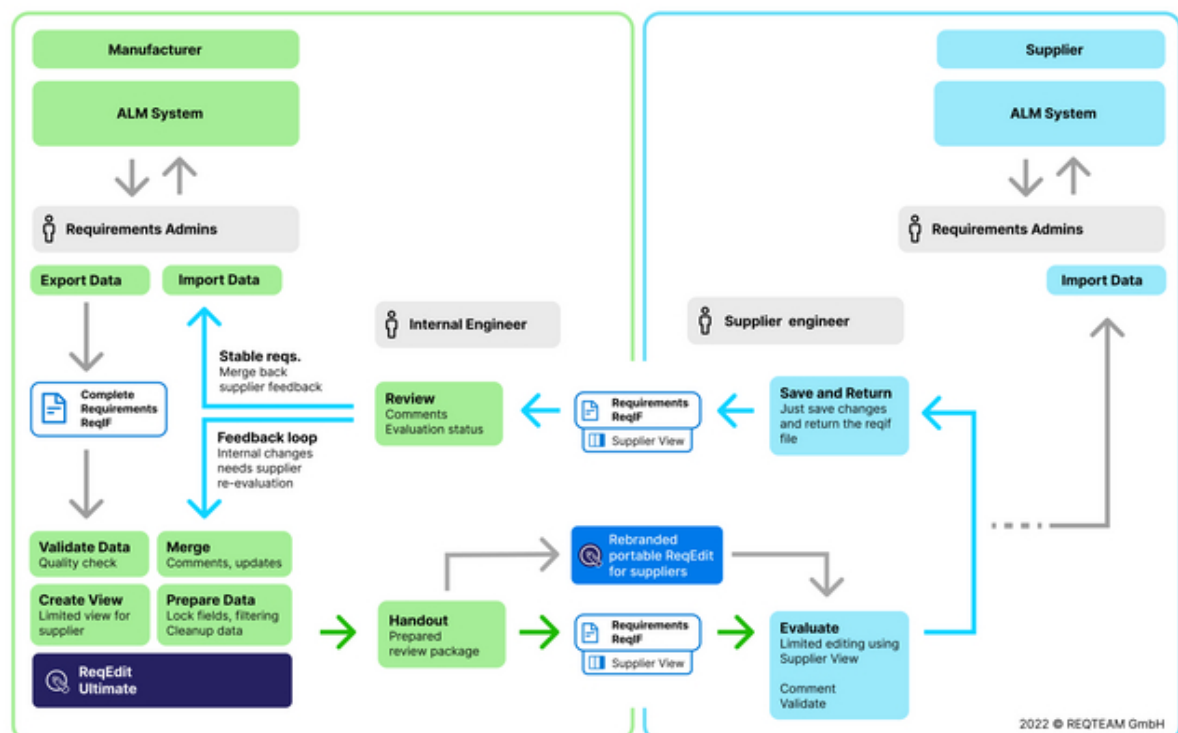
**Mapping File Related Exit Codes** 310 Mapping file does not exist or is not readable  
320 Mapping file has wrong format

**Log File Related Exit Codes** 410 Access denied; Cannot create not existing log file on creation mode  
411 Access denied; Cannot write to existing log file on update mode

1. <https://documentation.reqteam.com/reqxml-to-reqif/>
2. <https://documentation.reqteam.com/reqxml-to-reqif/>
3. <https://documentation.reqteam.com/reqxml-to-reqif/>

## ReqEdit supply chain (2021-07-26 10:57)

Use ReqEdit in your supply-chain to minimize data loss and risk factors. Give your suppliers the possibility to use ReqIF requirements with our software.



ReqEdit Supply Chain solution package including ReqEdit Ultimate on the Manufacturer side and ReqEdit Supplier edition on the Supplier side, diagram illustrates the data exchange between the participants with recommended actions

## The package

### ReqEdit Ultimate

Starting from 5 network licenses

Internal use within the company

All add-ons are included

### ReqEdit Supplier edition

Unlimited licenses

External use by suppliers

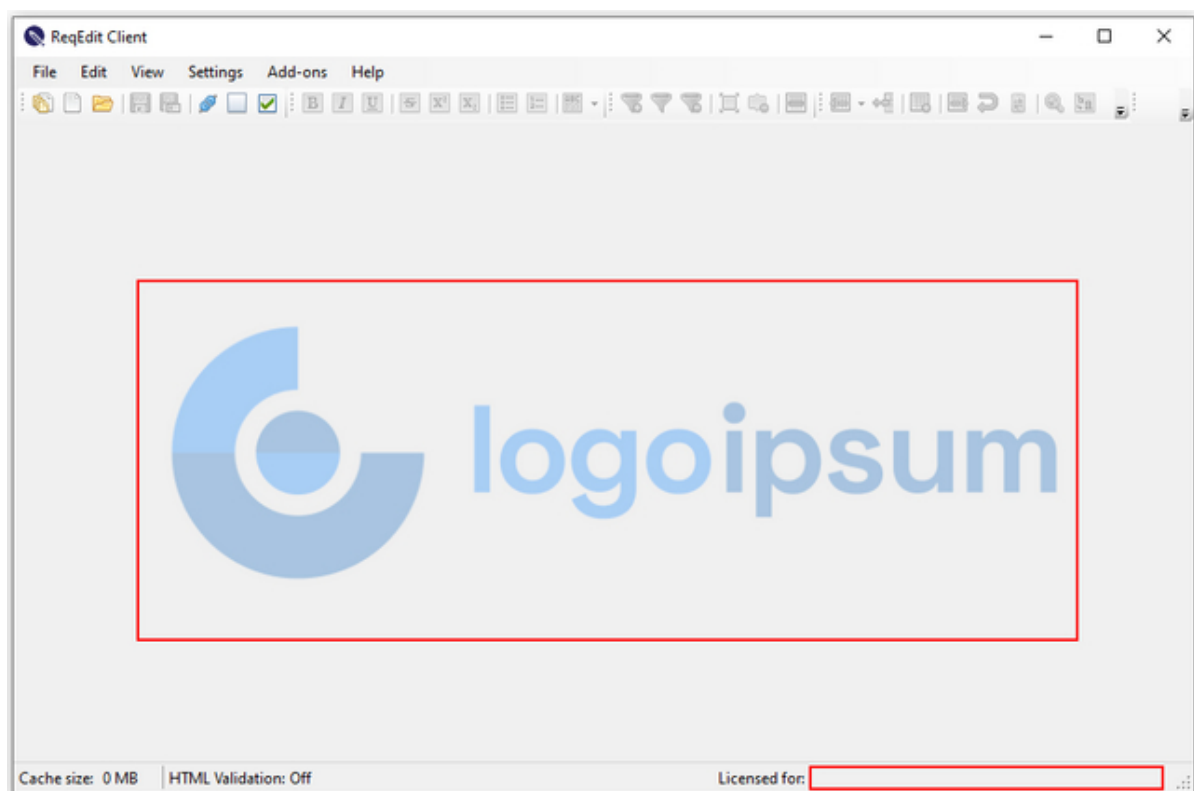
Can only fill in specific data

### ReqEdit supplier edition

ReqEdit can be branded and distributed to suppliers. Licensing terms and conditions can be configured to accommodate different use cases.

## Branding

The main content area of the application can display your logo image, and on the bottom license area the company name can also be included.



ReqEdit branding areas highlighted

## Licensing

Whitelabeling uses only a time limited license without locking to a specific machine. Specific license text can be included to represent the usage terms and conditions for the supplier.

## Promoting ReqIF format

As your company grows and the requirements are more and more sophisticated, lossless data transfers are a key factor to minimize communication errors and production delays.

Some of the benefits of using ReqIF format include:

### **Structured data**

### **Lossless data exchange**

### **Traceability**

### **Lossless data round trips between tools**

Suppliers can participate in this data exchange easily by offering ReqEdit to them.

---

## **Quick start guide (2021-07-27 14:00)**

### **1. Download ReqEdit**

Read how to [1]download ReqEdit trial and how to install and start it.

For the purchased product you get downloading and installing details by email from the sales department.

### **2. Install ReqEdit**

First check the [2]system requirements for the ReqEdit application.

Run the Portable-Installer from the directory, you downloaded it. The Portable-Installer guides you through the installing process.

For trial the activation happens automatically.

Read more on [3]Install ReqEdit.

### 3. Activate ReqEdit for purchased version

The License activator window appears. In the text box enter the Product key and press the Activate button.

Note: You need to have non-restricted Internet acces, or need to configure the proxy settings for it.

For overall view for activating methods, read [4]here.

### 4. Run ReqEdit

For run use the desktop icon or start "reqedit.exe" directly from the installation directory.

### 5. Use cases

- [5]Create document
- [6]Open document

- [7]Import IBM Rational DOORS© RIF Files
- [8]Import MS Word to ReqIF
- [9]Import MS Excel to ReqIF
- [10]Print opened document

1. <https://documentation.reqteam.com/reqedit-demo/>
2. <https://documentation.reqteam.com/starting-reqedit/#System-Requirements>
3. <https://documentation.reqteam.com/starting-reqedit/#Installation>
4. <https://documentation.reqteam.com/licensing-models/>
5. <https://documentation.reqteam.com/?p=2163>
6. <https://documentation.reqteam.com/open-reqif-requirement-files/>
7. <https://documentation.reqteam.com/importing/>
8. <https://documentation.reqteam.com/importing/#MS-Office-Word-Import>
9. <https://documentation.reqteam.com/excel-importer-add-on/>
10. <https://documentation.reqteam.com/printing/>

## 1.2 August

### Document Settings (2021-08-03 14:06)

Before describing the document properties, lets go through the internals of the ReqIF files.

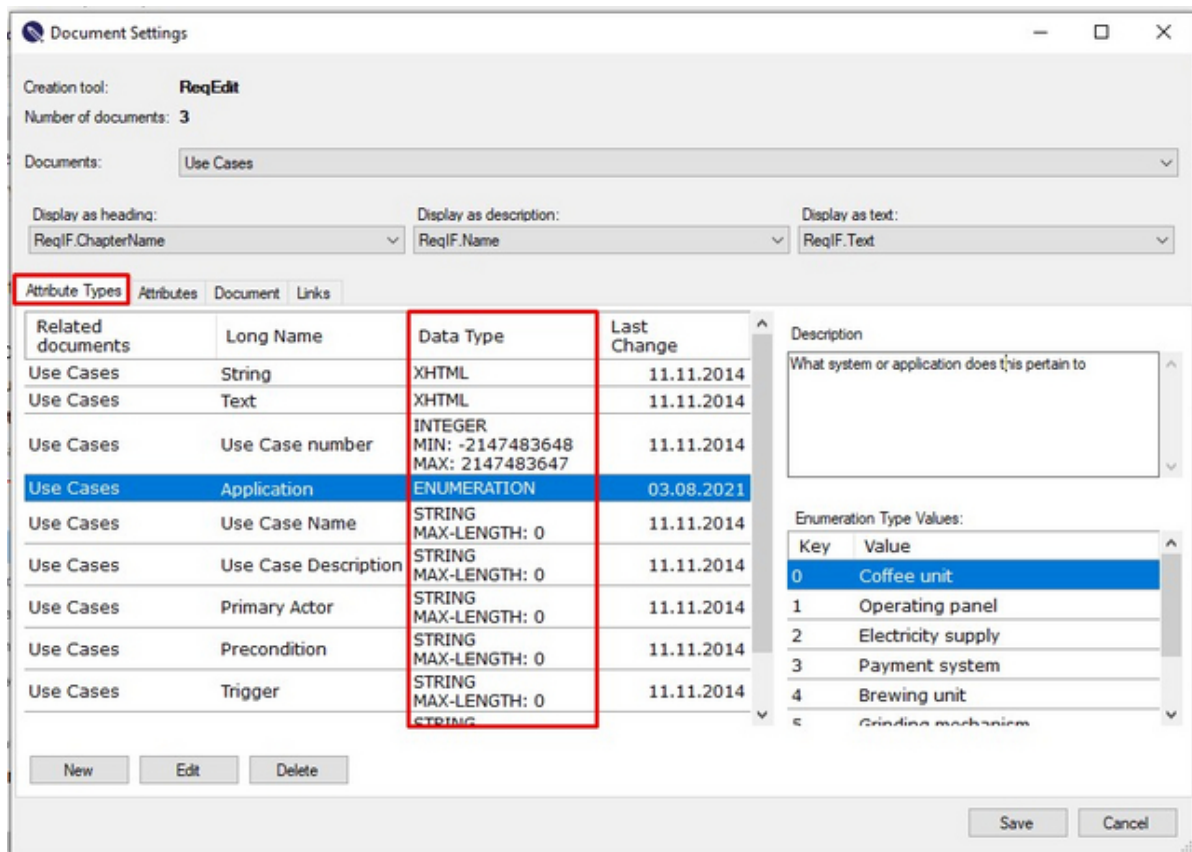
TLDR jump to Document properties

## Attribute types

Each specification document has its own set of attribute types that are used as attributes. The list can be displayed using the menu **Settings > Document**.

### Automatic data types for documents

Each new document will have: integer, real, date, string, xhtml and boolean attribute types automatically created, which can be edited.



ReqEdit displaying list of attribute types of a specification document, highlighted is the data type column which displays the base type and restrictions of the attributes. Selected is an enumeration type attribute and the enumeration values are displayed on the right bottom in the Enumeration Type Values list box

## Data types

Attributes in ReqIF files are constructed from underlying data types with or without restrictions. The usage of restrictions in the data types can make the requirement specifications more robust by not letting invalid values to be used.

## Properties of data types

Depending on data types, different properties are available. The following table describes all available properties per data type

Long Name	Description	Min	Max	Accuracy	Enum	Values
-----------	-------------	-----	-----	----------	------	--------

**Boolean** X X

**Date** X X

**Enumeration** X X X

**Integer** X X X X

**Real** X X X X X

**String** X X X

**XHTML** X X

## Boolean

Its value can be true or false. These two states are displayed by a check box on the screen. This is an exception type, double click on the cell is not necessary for editing. Its value can be altered by a single click.

## Date

A real date can be written or set as its value. In the view mode, the cell shows the value of the date, but in the edit mode it displays the DateTimePicker controller used for selecting the date. This offers help for the user to select fast the exact date. The date value can also be removed by unchecking the box in the top left corner of the date picker.

## Integer

An integer can be given as a value between previously determined limits. In case of not giving a numeric type, the program will display an alert and the user can only continue if a correct value is entered.

## Real

The value can be a decimal number between previously determined limits. In case of not entering a numeric type, the program will display an alert and the user can only continue if a correct value is entered.

## String

An unformatted text with a previously determined length can be entered as a value.

NOTE: The maximum allowed length of a string is 600 characters. This limitation was imposed in order for the files to be compatible with IBM Rational DOORS.

## Enumeration

Represents a list of fixed values that can be used.

Each value has a **Numeric Value**, a **Label** displayed to the user, and an optional **color** in HEX or named color.

Attribute Type editor

DataType: Enumeration

LongName: enum1 Min: 0 Max: 0

Description:

Accuracy: 6

Identifier: \_396bc7f-ab9e-4c6a-bb67-681d6932ed5d

Enumeration values:

NUM VALUE	LABEL	COLOR
0	2-lime	Blue
0	3-pink	#1FBEE0
0	4-black	Black
0	5-green	#408080

OK Cancel

Enumeration type editor window

## XHTML

XHTML format permits formatting of text in multiple ways, similar to any text processing application: Bold, Italic, Underline, Strikethrough, Superscript, Subscript, Unordered list, Ordered list, Paragraph, Normal text, Heading 1 – Heading 6

In addition to text formatting **tables** and **images** can be used in the content, as well as **file attachments**.

## Attributes

Using the defined attribute types, attributes can be created to be used in the document or the objects. Each data type has its own properties shown in the following table

Long Name	Description	Read Only	Multivalued	Default Value
-----------	-------------	-----------	-------------	---------------

Boolean	X	X	X	X
---------	---	---	---	---

Date	X	X	X	X
------	---	---	---	---

Enumeration	X	X	X	X
-------------	---	---	---	---

Integer	X	X	X	X
---------	---	---	---	---

Real	X	X	X	X
------	---	---	---	---

String	X	X	X	X
--------	---	---	---	---

XHTML	X	X	X	X
-------	---	---	---	---

## Enumeration attributes

Using enumeration data types in attributes has two main use cases

### Single-value enumeration

You can choose only one value from a previously determined value set. It shows the chosen value in cell viewer mode. In the editor mode you can choose the required value from a values list (ComboBox or DropDownList).

Besides the values of an enumeration attribute type, the user can also select the value to remove the value of a cell.

### Multivalue enumeration

You can choose multiple values from a previously determined value set. It shows the chosen value in cell viewer mode. In the editor mode you can choose the required values from a list by selecting each check box.

	enum	enums
	2-lime, 3-pink	4-black
	4-black, 5-green	2-lime, 4-black
	4-black, 5-green	3-pink, 4-black
	3-pink	3-pink
		3-pink
	2-lime, 5-green	2-lime
	2-lime, 5-green	

Multivalued enum attribute displayed as list of values with colors

Requirement	Non-functional
Requirement	Constraint
Requirement	Constraint
Requirement	Constraint
Requirement	Constraint
Requirement	Constraint

Single value enum attributes are displayed as text

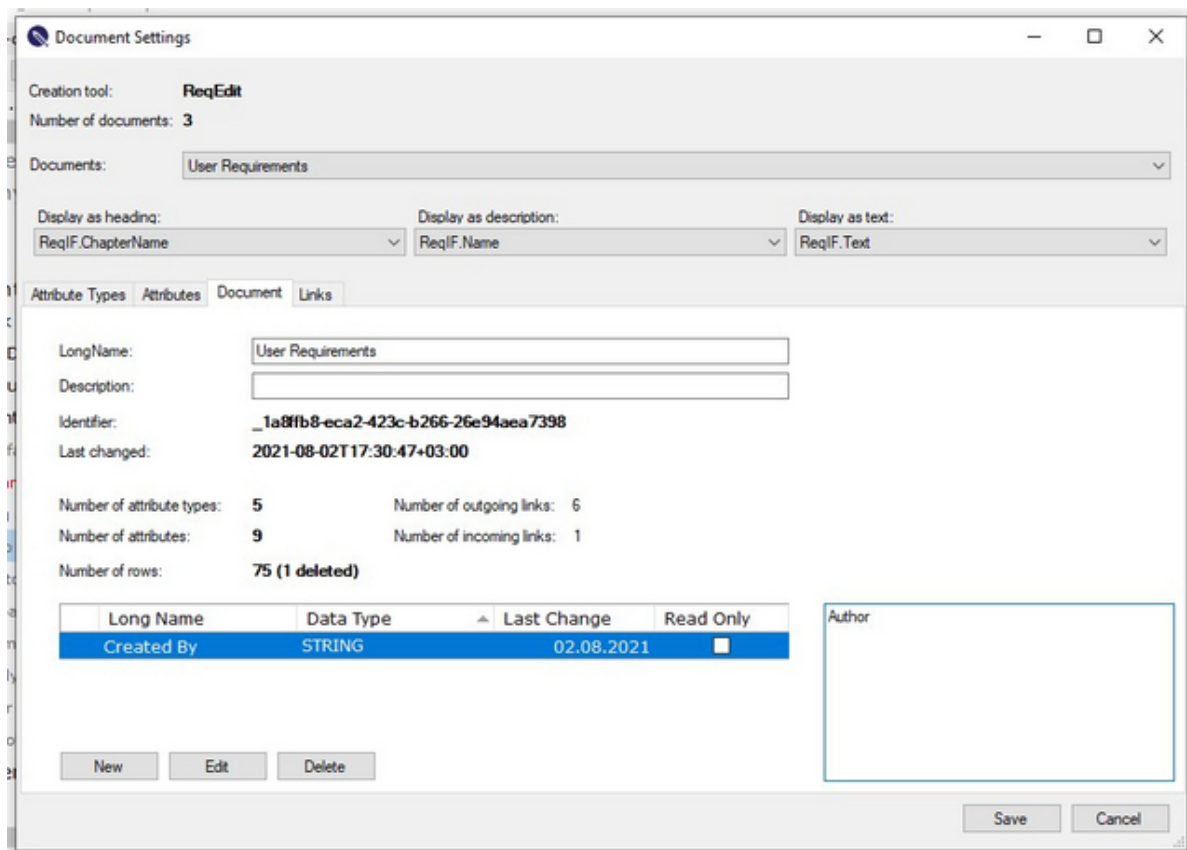
## Document Properties

Information related to a specification document is visible in the Document tab. Document Name, description, attributes and statistics.

Statistic Information of:

- Documents in file
- Rows in selected document
- Attributes in selected document
- Attribute types in selected document
- Incoming and outgoing links

Attributes that are defined internal to the specification are also listed with the value displayed on the right side.



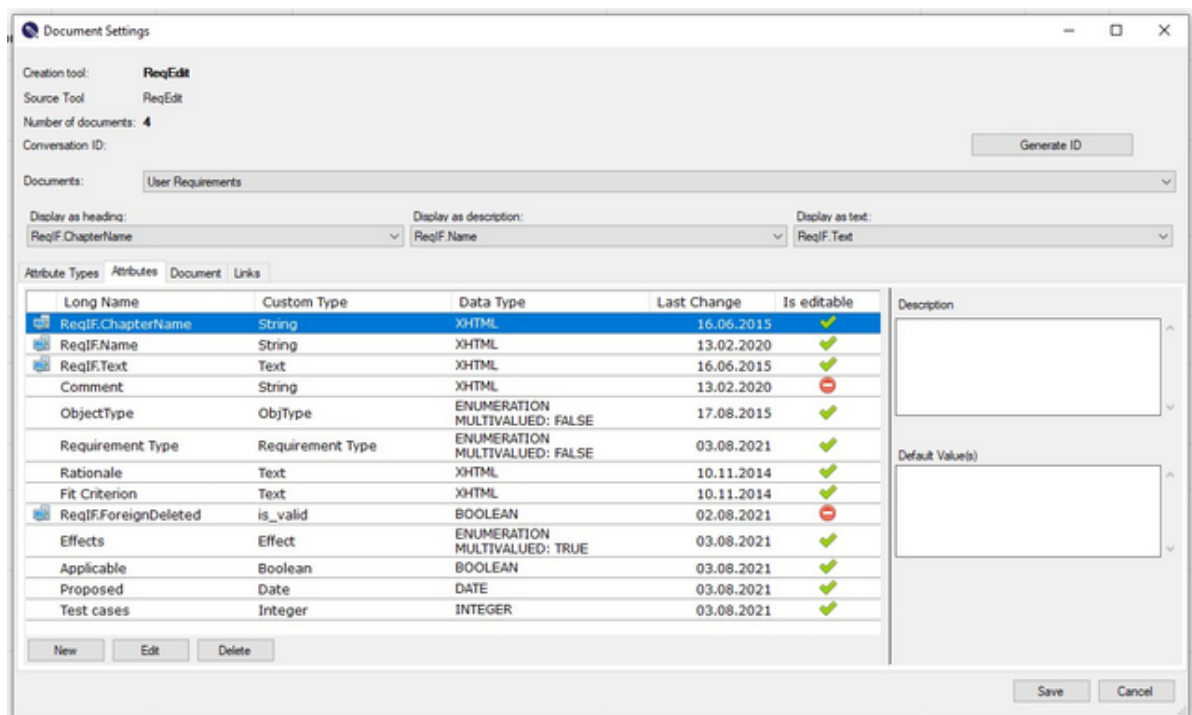
ReqEdit displaying document properties

## Specification types

Currently not displayed, internally will be created and used exactly as in the ReqIF standard.

## Object Attributes

List of attributes used in all objects of the selected document.



Object Attribute management window

System attributes are displayed by a PC icon in the list, **these attributes cannot be deleted**

### ReqEdit internal attributes

- **ReqEditID** – integer type, read-only attribute, internal unique ID
- **ReqEditModifiedOn** – date type, read-only attribute, last modification date of the object
- **ReqEditModifiedBy** – string type, read-only attribute, stores the Windows username who edited the object

### SpecObject types

Currently not displayed, internally will be created and used exactly as in the ReqIF standard.

## Links

### Are covered in the [1]Links chapter

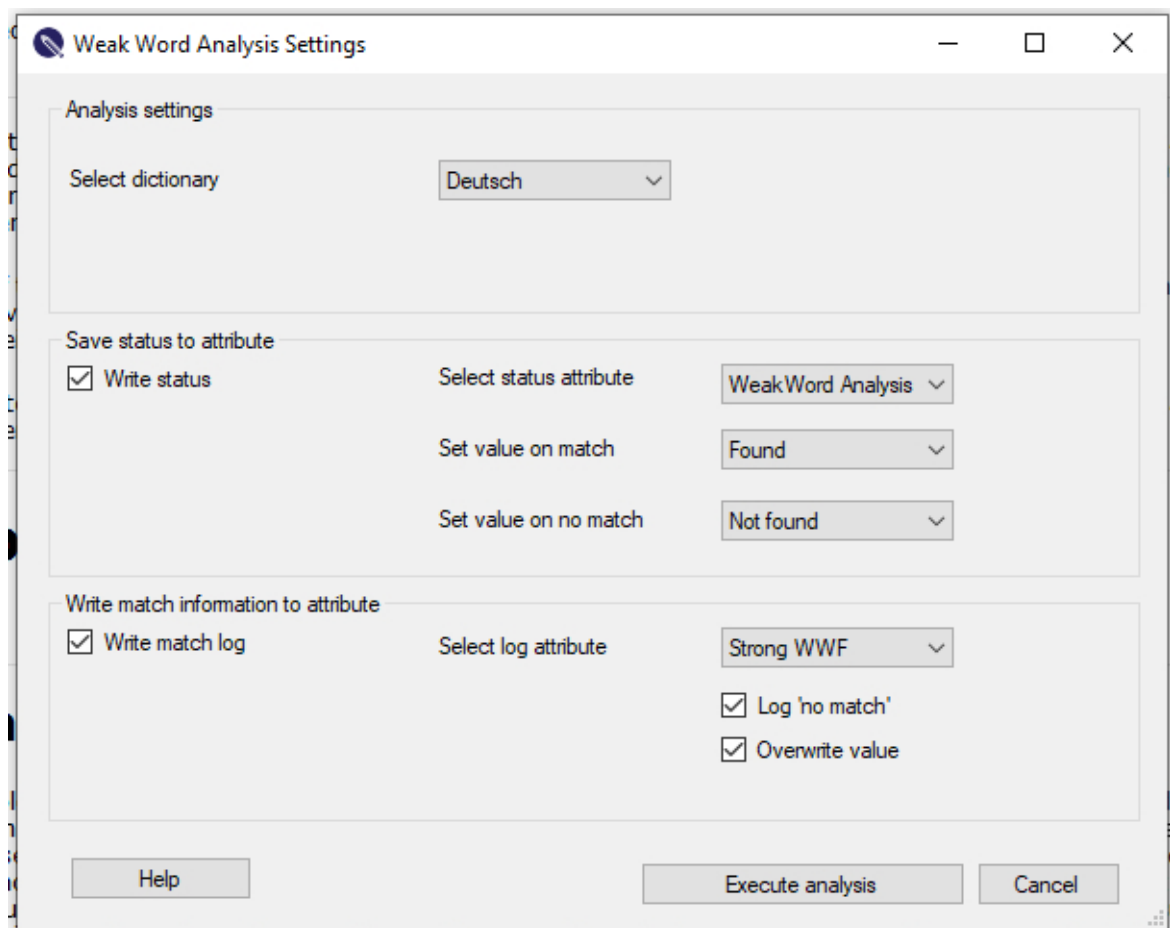
1. <https://documentation.reqteam.com/chapter/links/>
- 

### Add-on for Weak-word analysis (2021-08-20 14:43)

Weak words are words that are confusing for readers and should be avoided if possible. This tool provides a case insensitive whole word search for this purpose, optionally writing the results back in the ReqIF file.

## Analyze weak words

Start ReqEdit and open any ReqIF file. Select the specification document that needs to be analyzed. Select **Add-ons > Weak Word Analysis**.



ReqEdit Weak Word Analysis tool window

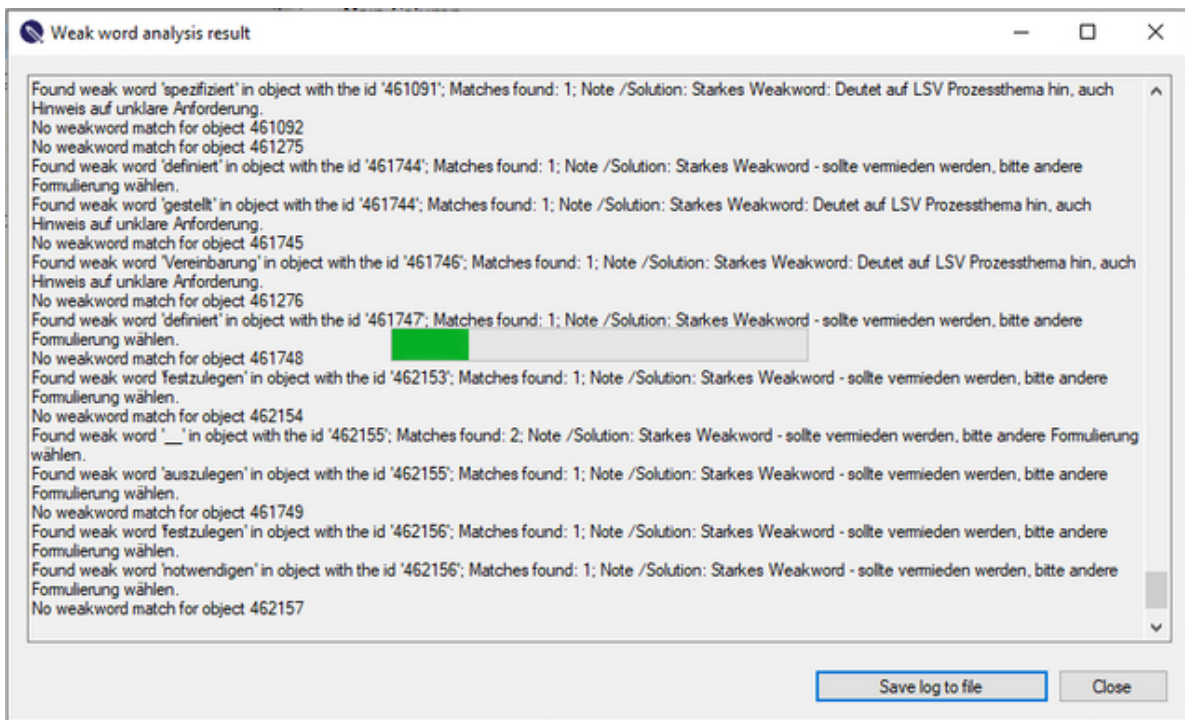
**Language selector** – displays the configured dictionaries from the ReqEdit.exe.config file

**Write status** – update a specific enumeration attribute if there is or not a match in the dictionary

**NOTE: Write status for multi value enums will add the selected value, existing values will not be removed. This can be useful for status fields that are used for other markings as well.**

**Write match log** – update an XHTML attribute with the analysis result, optionally overwriting the contents in the selected attribute

**Log "no match"** - write in the attribute when no match is found



ReqEdit weak word analysis progress window and log

Analysis progress and log is displayed in real-time. After completion the log output can be saved as a file with **[Save log to file]** button

## Analysis result in ReqIF

When **Write match log** is enabled, the ReqIF file will be updated with the current results of the analysis.

Main Column	Strong WWF
based on Volere Requirements Specification Template Edition 15—March 2020	2021.09.15 12:41: No weakword match for this object.
<p>Volere is the result of many years of practice, consulting, and research in requirements engineering and business analysis. We have packaged our experience in the form of a generic requirements process, requirements training, requirements consultancy, requirements audits, a variety of downloadable guides and articles, and this requirements template. We also provide requirements specification-writing services.</p> <p>The first edition of the Volere Requirements Specification Template was released in 1995. Since then, organizations from all over the world have saved time and money by using the template as the basis for discovering, organizing, and communicating their requirements.</p> <p>The Volere web site <a href="http://www.volere.co.uk">www.volere.co.uk</a> contains articles about the Volere techniques, ...</p>	2021.09.15 12:41: found 'also' in main column 1 times. Note /Solution: Strong Weakword - should be avoided, please choose another wording..
<b>1 - Project Drivers</b>	2021.09.15 12:41: No weakword match for this object.
 <b>1.1 - The Purpose of the Project</b> <p>Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.</p>	2021.09.15 12:41: No weakword match for this object.

Weak word analysis tool result attribute on the right side

## Expert knowledge

## Dictionary

Dictionary file/s must be created in the **ReqEdit/Dictionary** folder and has to follow the following format:

**<Lowercase word><TAB><hint>**

```
should    Strong Weakword; should be avoided, please choose another wording.
about     Strong Weakword; should be avoided, please choose another wording.
```

Only one word per row.

**NOTE: If the hint is not present the analysis still works but the report will be empty for it.**

## Dictionary config

Edit **ReqEdit.exe.config** and set the **WeakWordList** to use the dictionary files

```
<setting name="WeakWordList" serializeAs="String">
    <value>Deutsch,weakword_list_de.txt;English,weakword_list_en.txt</value>
</setting>
```

The dictionary files has to be added in the following format:

**<Language selector label>,<dictionary file name in Dictionary folder>;**

There must be at least one dictionary to use the tool. The dictionary should be saved in a text file with UTF-8 encoding.

**Only Main Column** is used for analysis other attributes are not processed.

Dictionary contents is filtered and **only unique word+hint** pairs are used.

The tool is searching **only for whole words** in the Main Column contents.

The search is **case insensitive** regex search.

All text is converted to lowercase internally and matched with the lowercase weak words.

#### **Weak word Text Result**

go I will **GO** TO THE office then **go** home 2 Found  
go John goes to the office Not found

#### **Status updates**

**Single value** enumeration attributes will have the value from the configuration.

**Multi value** enumeration attributes will receive the configured values, but the previous values will not be removed from it.

## **Notices and limitations**

If the weak word add-on menu is not active it can have several reasons:

- You do not have the necessary license
- There are no ReqIF files opened
- ReqEdit.exe.config is not configured

The tool was tested in UTF-8 character encoding, using other encodings can produce unintended results.

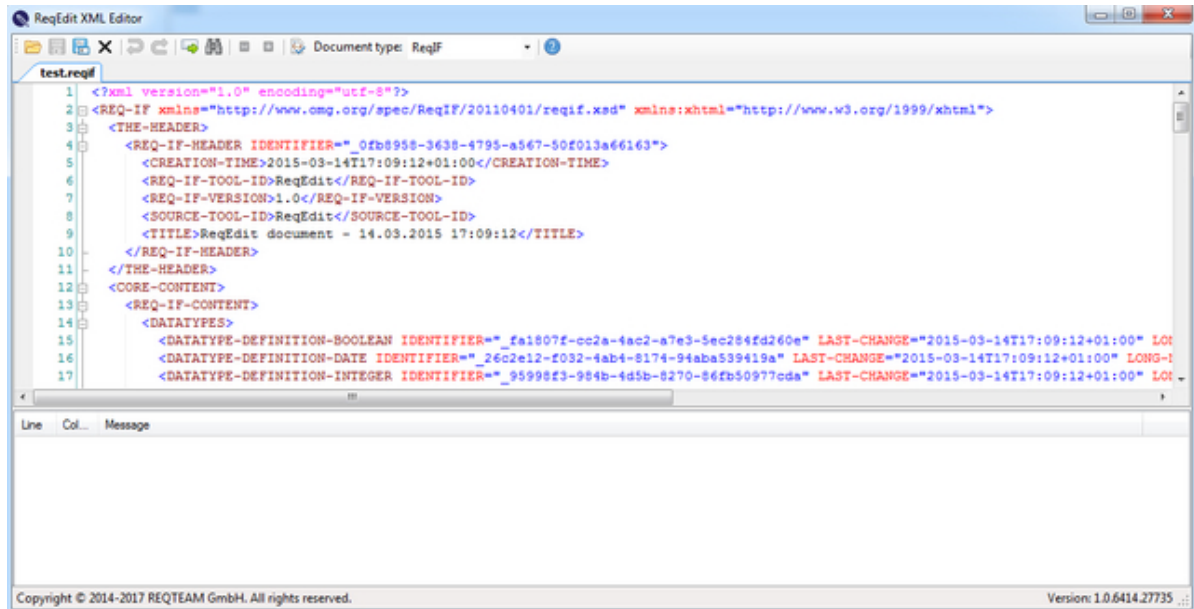
---

#### **XML Editor add-on (2021-08-23 13:50)**

ReqEdit XML Editor is optimized for ReqIF files. Supports XML validation as well as ReqIF schema validation.

## **Opening the XML Editor**

Select **Add-ons > XML Editor**

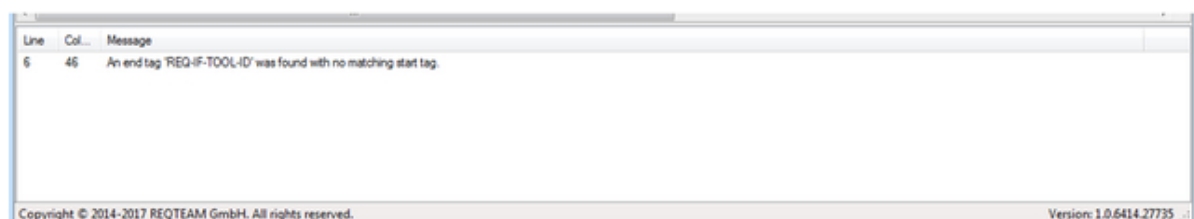


ReqEdit XML Editor add-on, displaying a single ReqIF file

The editor can display multiple ReqIF files in tabs. In the lower part of the interface is the validation / debugger panel.

## Validating ReqIF

The editor supports validation for **ReqIF / RIF1.1a** using the document type toolbar section. After validation the errors will be displayed in the debugger panel.



### RegEdit XML Editor add-on, displaying validation errors

---

## ReqXML to ReqIF (2021-08-23 14:37)

Simplified XML format for generating ReqIF files with ReqEdit. The XML schema defines that all XML tags MUST be UPPERCASE and all HTML tags MUST be lowercase.

## ReqXML Format

The namespace defined for ReqXML is **<http://www.reqteam.com/reqedit/data-exchange>** .

Example of a ReqXML file

```
<EXCHANGE-DATA xmlns="http://www.reqteam.com/reqedit/data-exchange"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.reqteam.com/reqedit/data-exchange
file:///D:/Work/ReqEdit/RifSchemas/reqedit_xml/reqedit_xml.xsd">
  <METADATA>
    <DOCUMENT-TYPES>...</DOCUMENT-TYPES>
    ...
    <ITEM-TYPES> ... </ITEM-TYPES>
    ...
  </METADATA>
  <DOCUMENTS>
    <DOCUMENT>
      ...
    </DOCUMENT>
    ...
  </DOCUMENTS>
</EXCHANGE-DATA>
```

**Document types** - Defines attribute sets for requirement documents

**Item types** - Defines attribute sets for the requirement objects inside the document.

**NOTE: only one item type is supported for one document** (multi item type documents are not supported)

## Type definition

```
<ITEM-TYPE>
  <ID>_a23fe234-236f-45e5-b321-2342117348</ID>
  <NAME>All attributes</NAME>
  <ATTRIBUTES>
    <ATTRIBUTE-STRING>
      <NAME>RequirementsID</NAME>
    </ATTRIBUTE-STRING>
    <ATTRIBUTE-XHTML>
      <NAME>ChapterName</NAME>
      <BASETYPE>
        <ID>_8a711c80-1594-48ba-b850-4855a768e5b3</ID>
        <NAME>HTML-TEXT2</NAME>
      </BASETYPE>
    </ATTRIBUTE-XHTML>
    <ATTRIBUTE-ENUM>
      <ID>_7e9ac904-9c20-4a97-8d73-535cd189212e</ID>
      <NAME>ObjectType</NAME>
      <MULTIVALUE>>false</MULTIVALUE>
      <VALUES>
        <VALUE
ID="_7e9ac904-9c20-4a97-8d73-535cd189212e-Heading">Heading</VALUE>
        <VALUE
ID="_7e9ac904-9c20-4a97-8d73-535cd189212e-Information">Information</VALUE>
        <VALUE
ID="_7e9ac904-9c20-4a97-8d73-535cd189212e-Requirement">Requirement</VALUE>
      </VALUES>
    </ATTRIBUTE-ENUM>
  </ATTRIBUTES>
```

In the example we defined:

- string attribute with name: RequirementID, For a single import is this enough.
- XHTML attribute with name: ChapterName.
- Single Enum attribute with name: ObjectType with values: Heading, Information, Requirement

## Document structure

One file can contain multiple documents. Each of the documents must have a reference to the attribute set, which defines the attributes of the document itself. Even if there are no attributes a document type reference needs to be done. Additionally, a NAME need to be defined.

```
<DOCUMENTS>
  <DOCUMENT>
```

```

        <ID>_3_f7e0655f-2099-40fe-bfbc-08346abda405</ID>
        <PARENT>_1_f7e0655f-2099-40fe-bfbc-08346abda405</PARENT>
        <NAME>FOO</NAME>
        <DOCUMENT-TYPE-REF>_a23fe234-236f-45e5-b321-document</DOCUMENT-
TYPE-REF>
        <ITEMS>
            <ITEM>
                <ITEM-TYPE-REF>_a23fe234-236f-45e5-b321-2342117348</ITE
M-TYPE-REF>
                <ATTRIBUTES>
                    <ATTRIBUTE>
                        <NAME>ChapterName</NAME>
                        <VALUE>
                            <div
xmlns="http://www.w3.org/1999/xhtml">First main chapter.<em>ss</em></div>
                            </VALUE>
                        </ATTRIBUTE>
                    </ATTRIBUTES>
                </ITEM>
                ...
            </ITEMS>
        </DOCUMENT>
        ...
</DOCUMENTS>

```

Each of the items need to have a reference to an item type which determines the attributes can be used in this requirement and an unique ID for later trace or structure references . To define the attribute reference, use the NAME tag and to set the value the VALUE tag, except the enum attributes.

Enum values always needs to be inside VALUES tag. Even if the Enum is single valued.

**<VALUES><VALUE>Heading</VALUE></VALUES>**

To build up a tree structure inside the document, it is possible to define parent items (tag PARENT). The value of the tag is the unique ID of the parent item/requirement.

## Attribute Types

To define an attribute, you must define a name (NAME tag). Optional you can define an unique ID (ID tag) and a default value (DEFAULT tag). The IDs need to be unique in the complete document and need to be of type XSD:ID ([1]<https://www.data2type.de/xml-xslt-xslfo/xml-schema/datentypen-referenz/xs-id/>)

Attribute types allowed in ReqXML Type XML Tag Notes

Boolean ATTRIBUTE-BOOLEAN

Integer ATTRIBUTE-INTEGER Optionally

Minimum (Tag MIN)

Maximum (Tag MAX)

Real ATTRIBUTE-REAL

Date ATTRIBUTE-DATE Date format:

2020-07-23T23:59:59

String ATTRIBUTE-STRING Text without any formatting or line breaks

XHTML ATTRIBUTE-XHTML Supports line breaks, formatting or attachments

Enumeration ATTRIBUTE-ENUM Multivalued Enums (Tag MULTIVALUE with value **true / false**)

Each attribute needs to refer to a predefined attribute type. For enumerations the valid values need to be defined

```
<ATTRIBUTE-ENUM>
  <ID>_7e9ac904-9c20-4a97-8d73-535cd189212e</ID>
  <NAME>ObjectType</NAME>
  <MULTIVALUE>false</MULTIVALUE>
  <VALUES>
    <VALUE
ID="_7e9ac904-9c20-4a97-8d73-535cd189212e-Heading">Heading</VALUE>
    <VALUE
ID="_7e9ac904-9c20-4a97-8d73-535cd189212e-Information">Information</VALUE>
    <VALUE
ID="_7e9ac904-9c20-4a97-8d73-535cd189212e-Requirement">Requirement</VALUE>
  </VALUES>
</ATTRIBUTE-ENUM>
```

## XHTML Attributes

For formatted content please use attributes of type XHTML. All content MUST be wrapped in a div tag

```
<div xmlns="http://www.w3.org/1999/xhtml">My formatted ... content</div>
```

NOTE: The div wrapping is necessary to be able to validate the XHTML content internally.

## Limitations

Please keep in mind, that ReqXML is only a preformat for the ReqIF, which does not allow all tags from XHTML. So ReqXML allows only tags which are valid in ReqIF, too.

So please use only the basic formatting tags (like cite, em, strong, sup, sub ..) and the predefined heading tags (h1..h6). You can use XHTML Tables and list elements (Tags OL and UL) as well.

In a requirement document the requirements will be linked completely, and not only some words (like in XHTML with the A tag). Please use for tracing definition the link tag of ReqXML to reference between requirements (artefacts)

If you want to reference to external files, please do it only with the tag OBJECT and not with IMG (which is not allowed). Attachments of a single document should be placed in a definite subfolder (which is named like the document itself or its ID).

```
<object data="./attachments/Anschreiben.docx" type="application/word">
<object data="./attachments/Anschreiben.png" type="image/png">this is an alternative
text</object></object>
```

It is recommended to create for each of the attached files a small preview, so the requirements engineer could have a quick impression about the content inside the file. Previews have to be in PNG format!

For more advanced users, which already have experience with XML Schema the list of valid tags can be traced down in the XML Schema file located at ReqEdit in the folder <<PATH to REQEDIT>>ReqEdit\RifSchemas\reqif\driver.xsd and referenced schema files inside.

## Relevant ReqIF attribute naming

If you want to use your data in **Requirement Management** systems or want to have a correctly display the data in ReqEdit, please use the following naming conventions: Attribute Name Type Description

**ReqIF.ChapterName** XHTML Requirements heading

**ReqIF.Name** XHTML Short description

**ReqIF.Text** XHTML Requirements text

**ReqIF.ForeignDeleted** BOOLEAN Display this item as deleted if set to true

**ReqIF.ForeignID** INTEGER ID given by the source RM system

ReqIF.ForeignCreatedBy STRING User that created this item

ReqIF.ForeignCreatedOn DATE Date the item was created

ReqIF.ForeignModifiedBy STRING User last modified the item

*LAST-CHANGE attribute of item* DATE Modification date of the item

ReqIF.ChapterNumber STRING The chapter number

## Best practices

- Please avoid defining a heading and requirements text in one item/requirement.
- Use only headings as structuring element, if its possible
- Please use long IDs (preferred UUIDs) for the unique IDs, so the chance is low to have the same ID for two elements in your complete project.
- Don't use the same attribute names inside the same type definition
- Don't use the same value inside the same Enum definition

## IBM specific SAME-AS mapping

DOORS Next support the possibility to define different attributes for different documents, but the meaning of the attribute is identic. To avoid creating multiple instances of the same attribute it is possible to determine a SAME-AS tag with an URL content, that says to DNG not to create the attribute multiple times. This definition needs to be done in the document types or item types definition of the specific attribute

```
<ATTRIBUTE-DATE>
  <NAME>LastModified</NAME>
  <SAME-AS>http://purl.org/dc/terms/modified</SAME-AS>
</ATTRIBUTE-DATE>
```

## Updates

If you plan multiple imports of the same document for updates, it is recommended to fix down the Attribute Ids and the referred base type. These values will be stored in the RM

system (like DOORS or Polarion) and could be later updated easily. To do so, please define for each of the attributes a unique ID.

For Enum values (Tags VALUES) please define the valid values (Tag VALUE). The definition of unique IDs is only necessary if you plan an update import.

## Traces

It is possible to define links between the different items (not necessarily in the same document, but in the same file). The block LINKS should follow the ATTRIBUTES tag inside the item/requirement.

```
<LINKS>
  <LINK-TYPE NAME="verification">
    <LINK TARGET="abc" DOCUMENT-REF="REQ-q23" />
    <LINK TARGET="def" DOCUMENT-REF="REQ-q23" />
  </LINK-TYPE>
  <LINK-TYPE NAME="satisfies">
    <LINK TARGET="abcd" />
  </LINK-TYPE>
</LINKS>
```

The reference to the document is not necessary, if the ID can be identified in the file. The attribute TARGET holds the unique ID of the target item. The Attribute DOCUMENT-REF is the unique ID of the document, where the item ID should be in.

1. <https://www.data2type.de/xml-xslt-xslfo/xml-schema/datentypen-referenz/xs-id/>

---

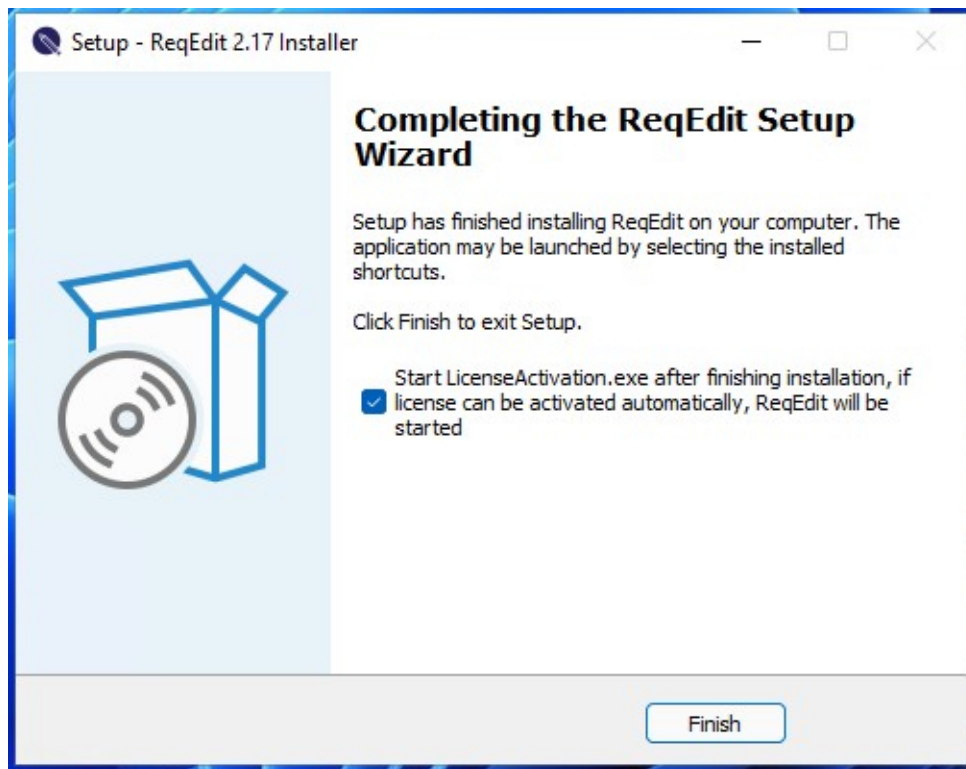
## 1.3 December

### License Management (2021-12-16 10:45)

## Automatic activation.

Activation runs automatically for trial version or for some custom-tailored versions.

On the last step of the installer the checkbox remains at default settings.



Window Start Activation Setup

LicenseActivator.exe starts without displaying User interface. It detects .v2c file and activates the product.

ReqEdit opens automatically.

## Online activation

After installation

Note: You need to have non-restricted Internet access, or need to configure the proxy settings for it.

The License activator window appears. If not, run the LicenseActivator.exe in the ReqEdit folder. In the text box enter the Product key and press the Activate button.

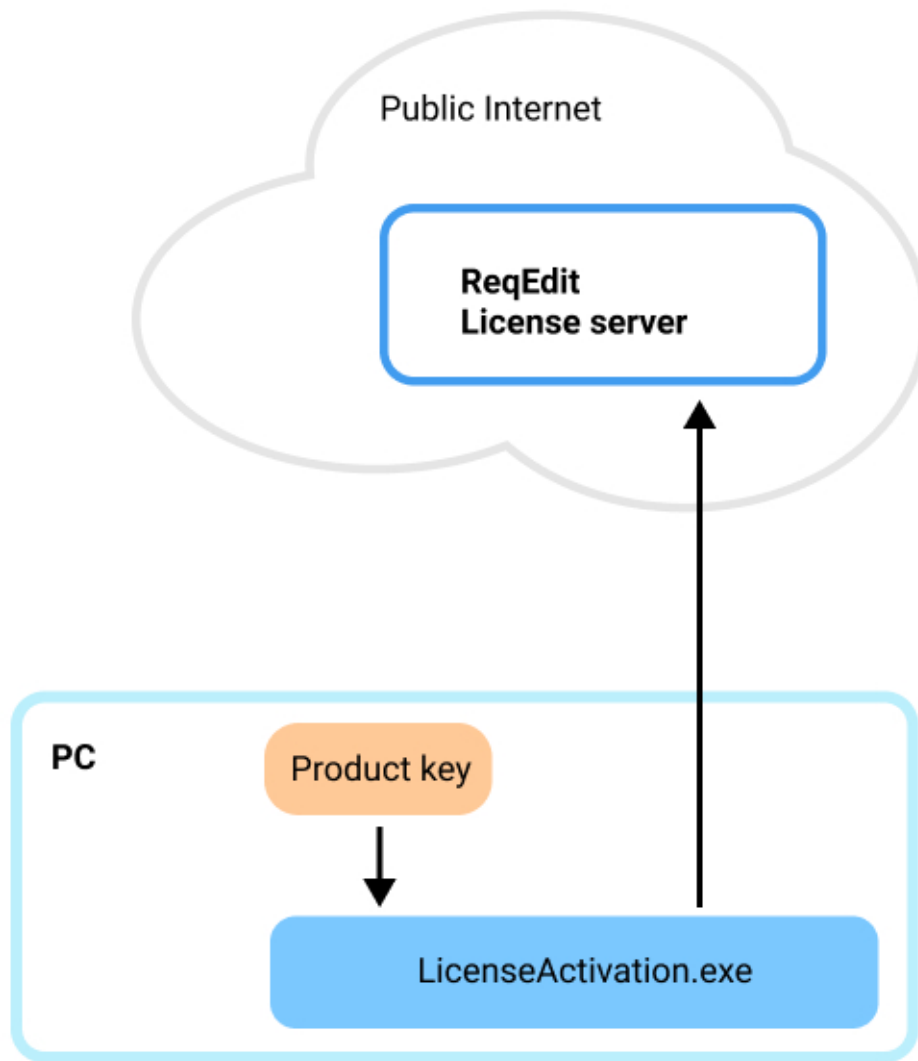
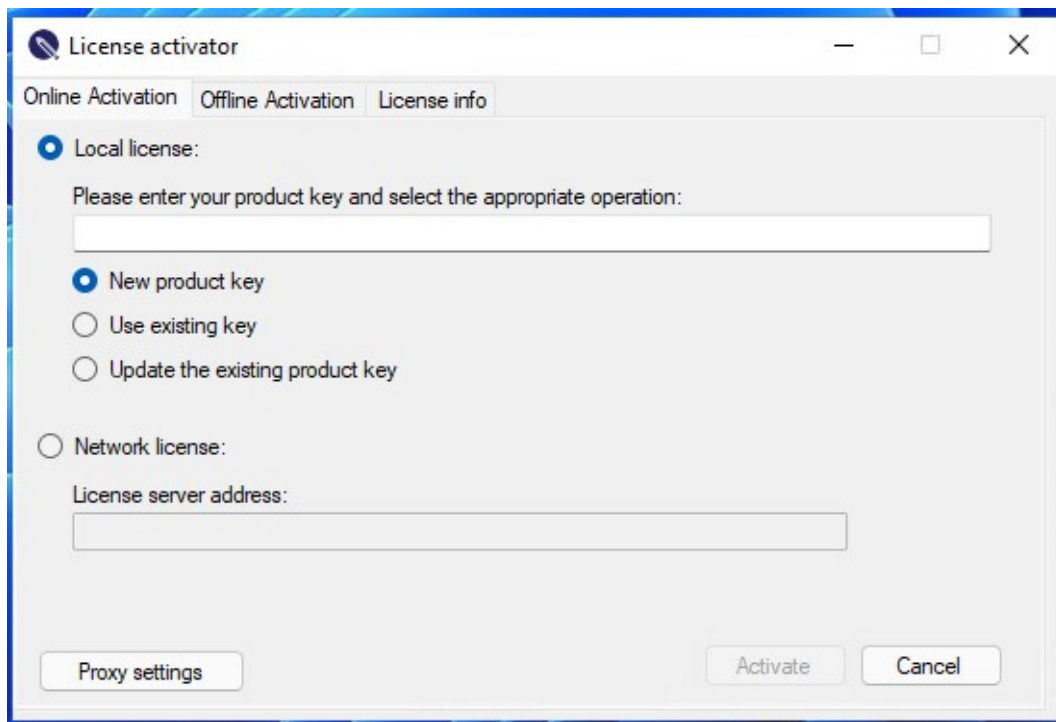
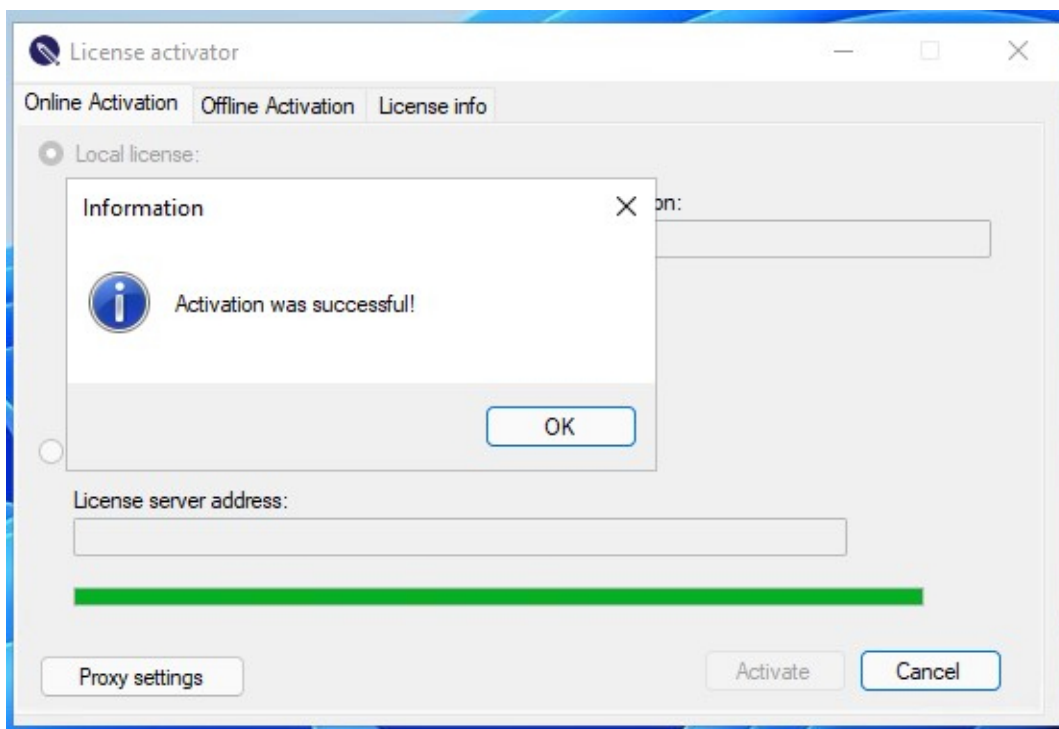


Diagram of public environment with direct connection to ReqEdit License Server



License activator window



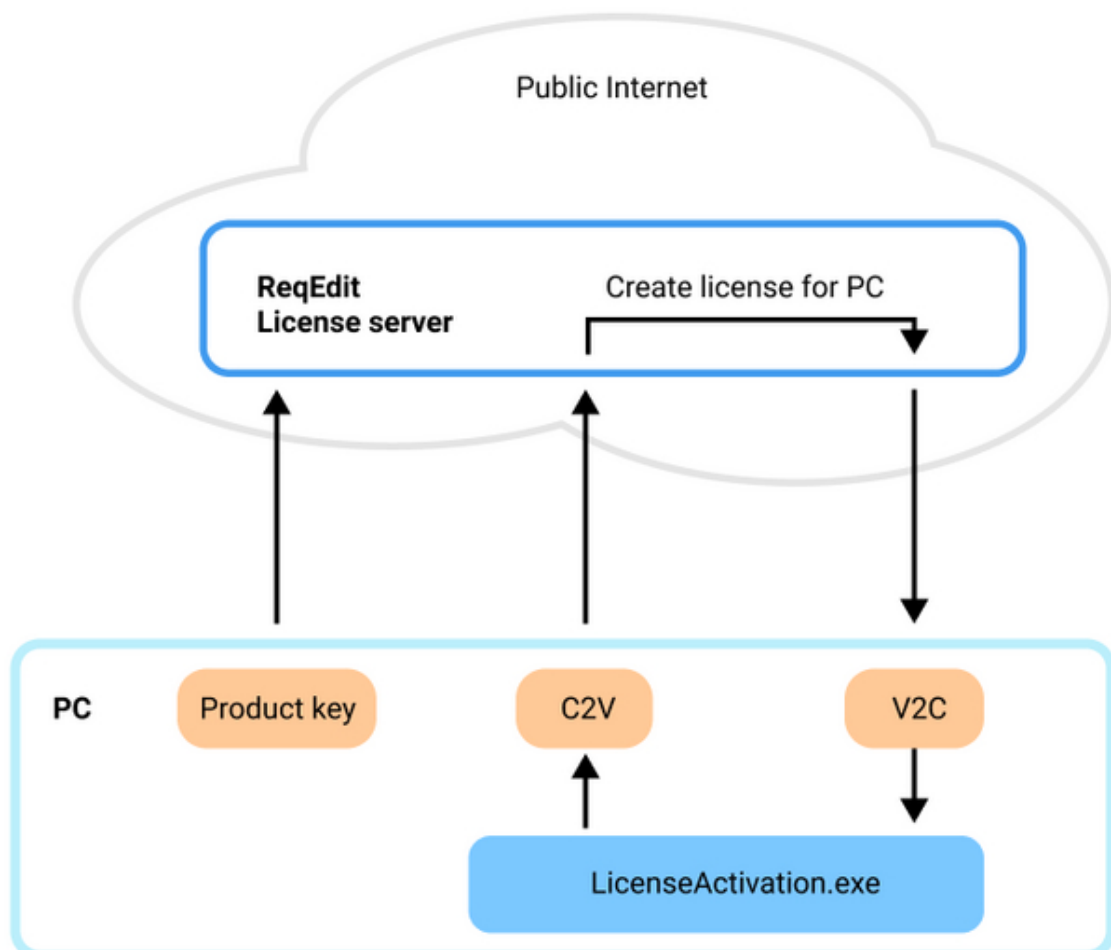
Activation done

Activation done. Run ReqEdit.

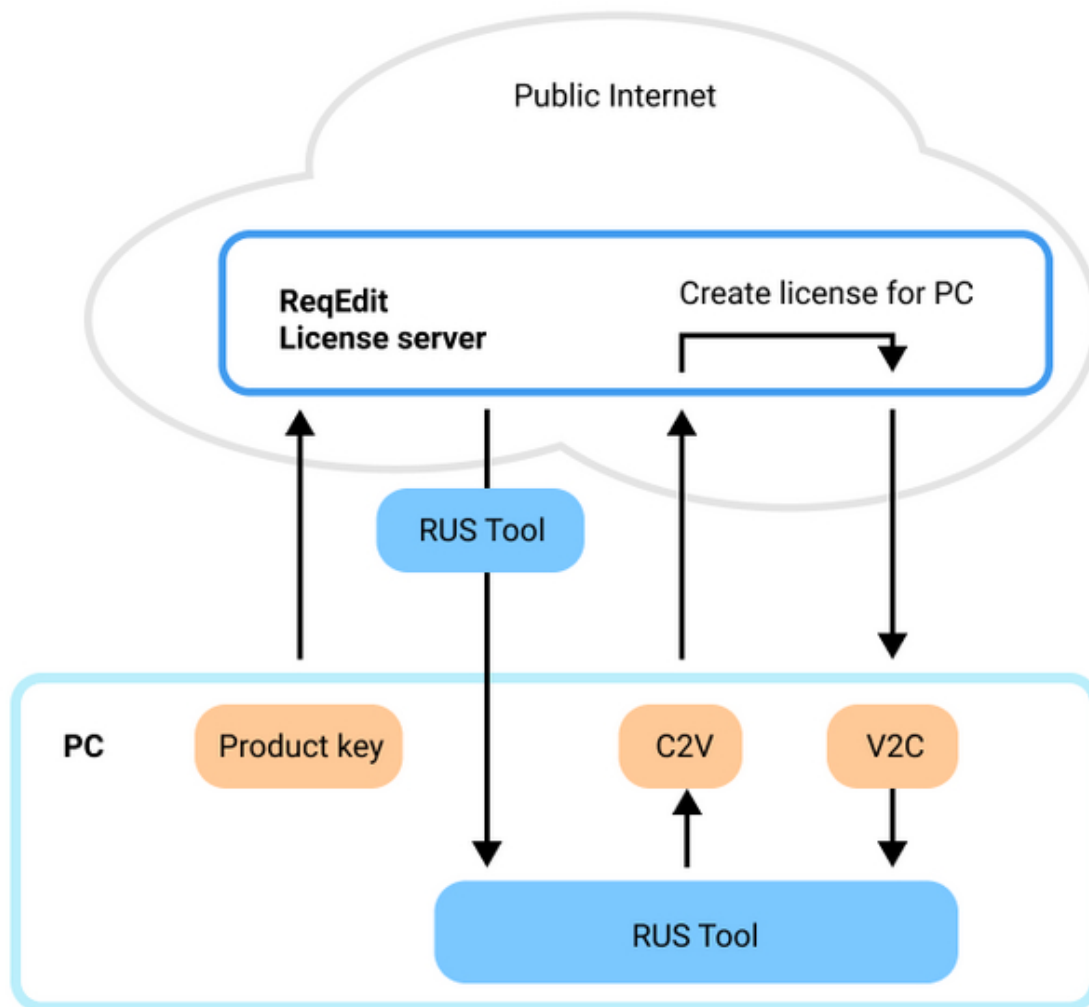
## Offline activation

This activation allows running ReqEdit when access to ReqEdit License Server is restricted or not available. Create manually a license for the machine where ReqEdit is running.

In this case there are 2 options for activation: Activation with the file LicenseActivation.exe or Activation using the RUS Tool. Through them you can generate a .c2v file which you need for creating the license for your PC.



Activation with LicenseActivation.exe



Activation with RUS Tool

Activation with [1]LicenseActivation.exe

Activation with [2]RUS Tool

## Activate with LicenseActivation.exe

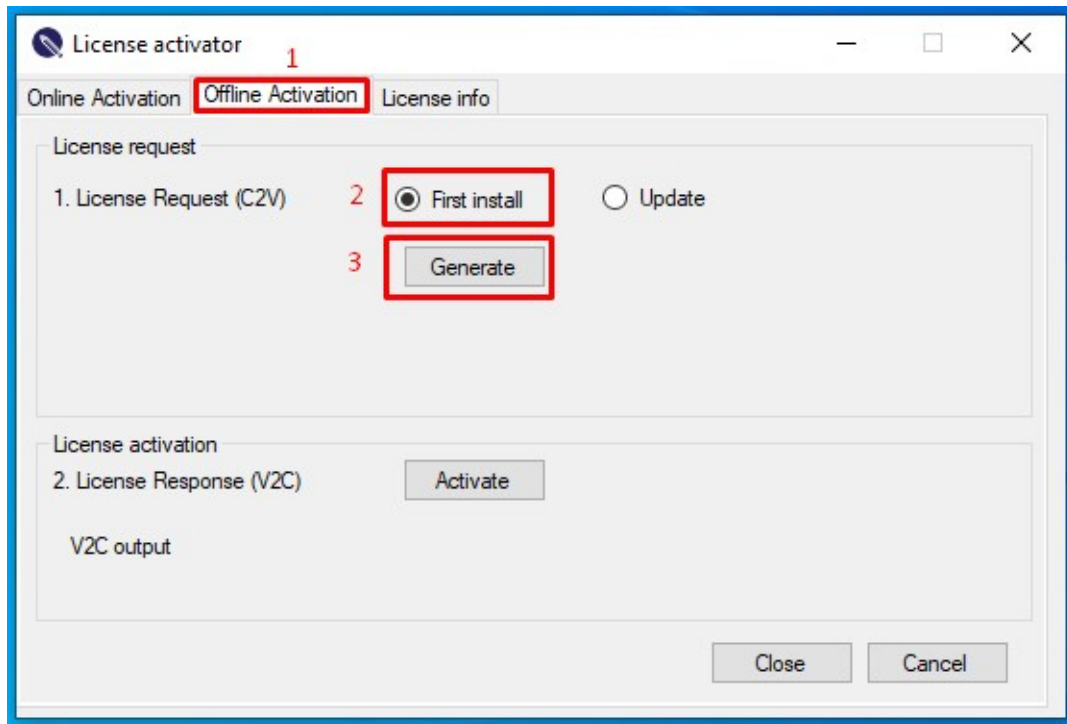
The offline activation needs the following:

- product key (got with purchasing ReqEdit)
- machine generated .c2v file (follow the next steps)

**Open** ReqEdit folder and click **LicenseActivation.exe** in the ReqEdit folder.

Pops up License activator window. Here **generate C2V file**

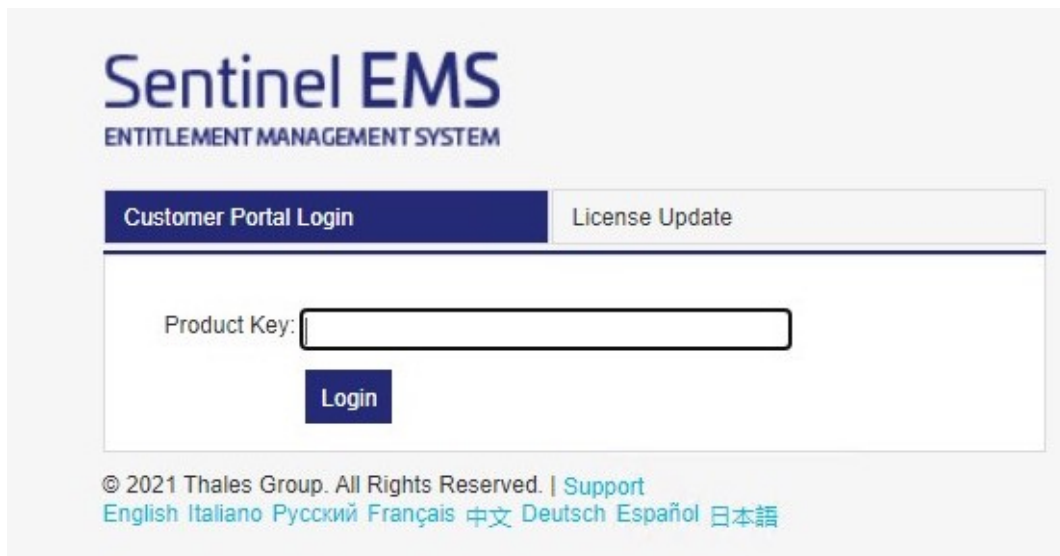
**Save** the file into the suggested folder or elsewhere



Generate c2v file in Offline activation

At an online workstation **login with Product key** at the Sentinel EMS Customer portal

[3]<https://license.reqteam.com/ems/login.html>



The image shows the Sentinel EMS Customer Portal Login page. At the top, the logo "Sentinel EMS" is displayed in blue, with "ENTITLEMENT MANAGEMENT SYSTEM" in smaller blue text below it. Below the logo, there are two tabs: "Customer Portal Login" (which is active and highlighted in dark blue) and "License Update" (which is inactive and highlighted in light gray). Below the tabs, there is a white rectangular box containing the login form. Inside this box, the text "Product Key:" is followed by a text input field. Below the input field is a dark blue button labeled "Login" in white text. At the bottom of the page, there is a copyright notice: "© 2021 Thales Group. All Rights Reserved. | Support" followed by a list of language links: "English Italiano Русский Français 中文 Deutsch Español 日本語".

Sentinel EMS Login

Choose **Offline Activation** tab. A new window appears.

In the Generate License window **upload** the saved **C2V** file.

Then click **Generate**.

Sentinel EMS  
ENTITLEMENT MANAGEMENT SYSTEM

Welcome | Logout | Help

Generate License

Order Details

Product Key:  
Customer: Botond Horvath E-mail: b.horvath@innov...  
Activations: Unlimited Remaining Activations: Unlimited  
Ref ID 1:  
Entitlement Comments:  
Products:

Product	Lock Type
Ultimate User License 10/2021	SL-UserMode

Download [RUS](#), a tool to generate C2V

Upload C2V

Upload C2V: Test\_Offline\_Activation.c2v

Comments:

Generate Cancel

Uploading the .c2v file

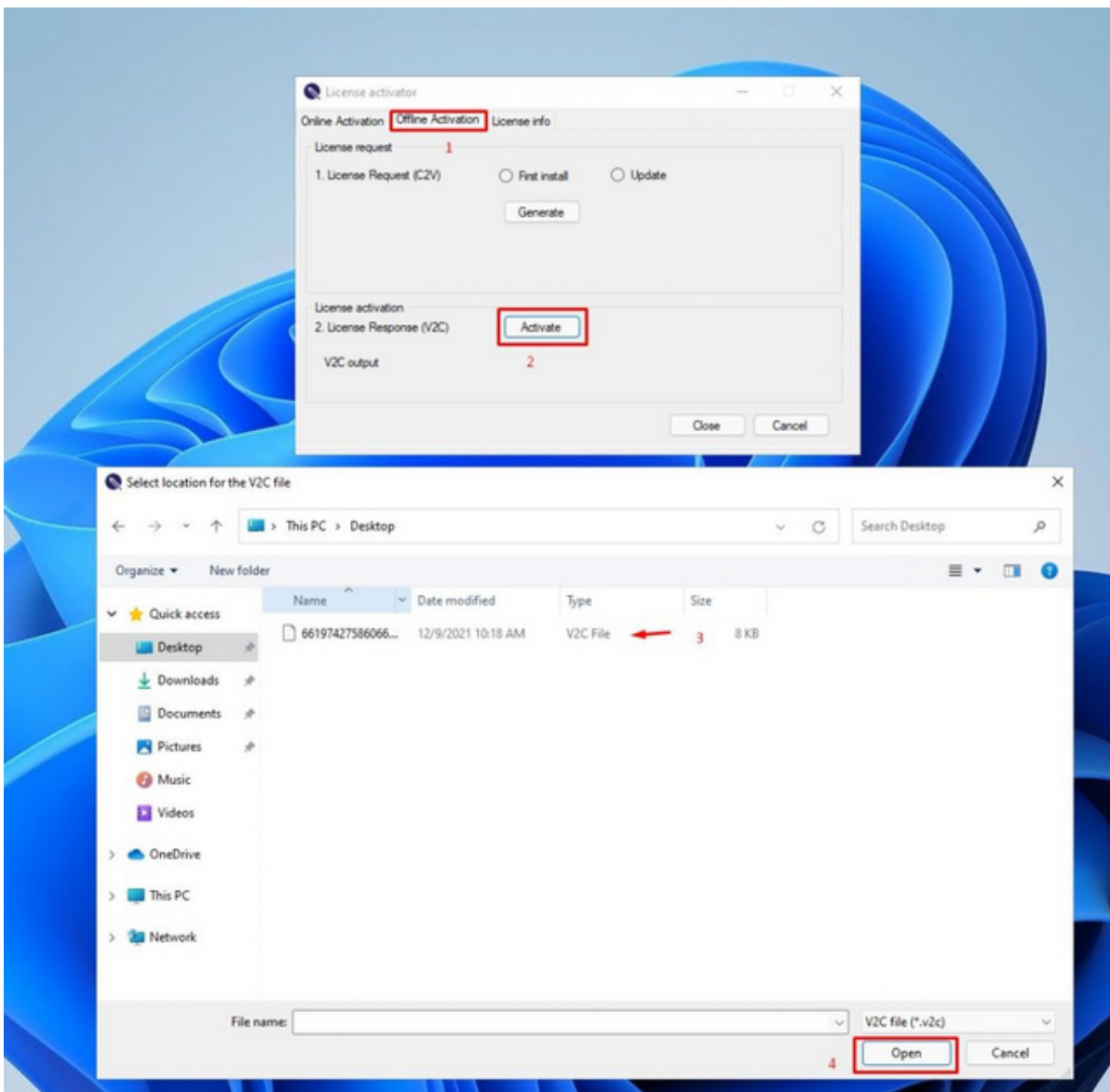
The Key ID. appears

**Download** the **VC2** file

Key ID	Lock Type	Activation Date	Comments	Download
	SL-UserMode	2021-12-09		<a href="#">V2C File</a>

Downloading the V2C file

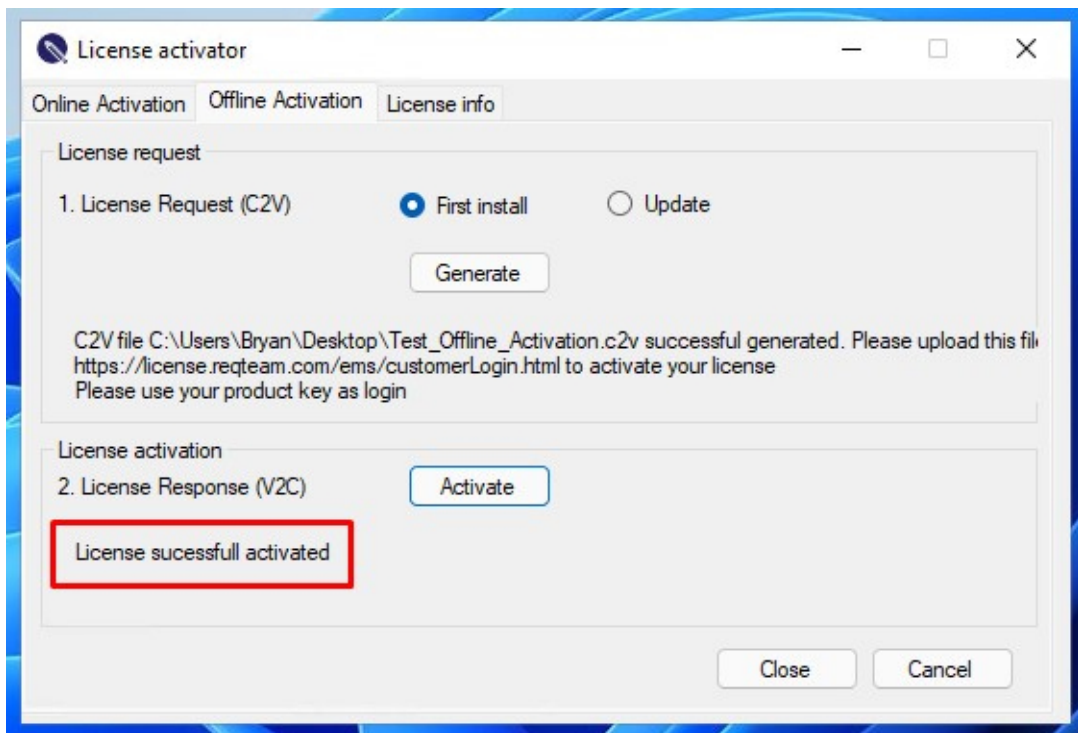
Go to the **License Activator** window and press **Activate** button



Activate offline with key

In the Browser window select **V2C** file

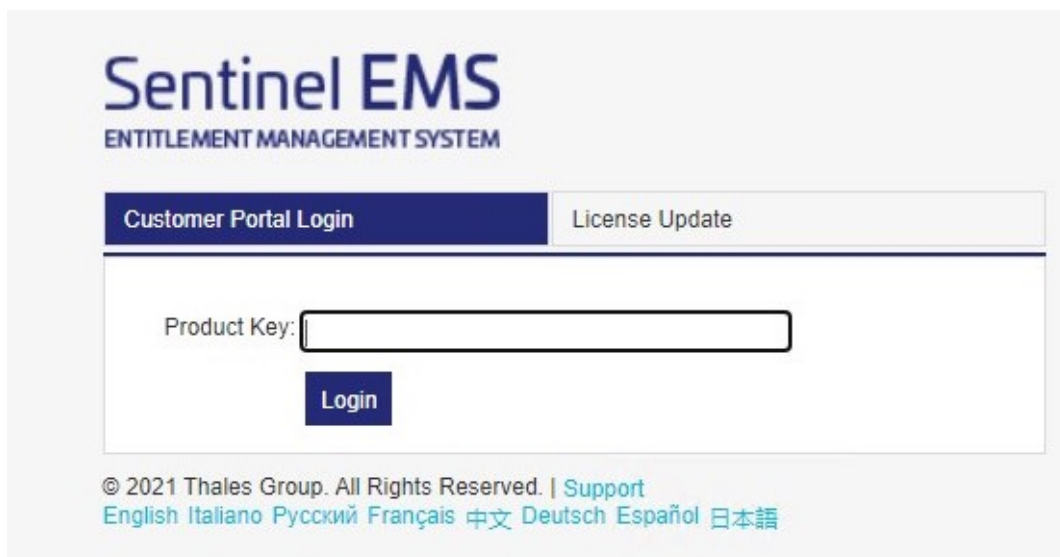
Press **Open**



**Open** ReqEdit and start working with it.

## Activate with RUS Tool

- Login to the customer page of REQTEAM license management ([4]<https://license.reqteam.com/ems/customerLogin.html>)
- Enter your license key from your license



**Sentinel EMS**  
ENTITLEMENT MANAGEMENT SYSTEM

Customer Portal Login    License Update

Product Key:

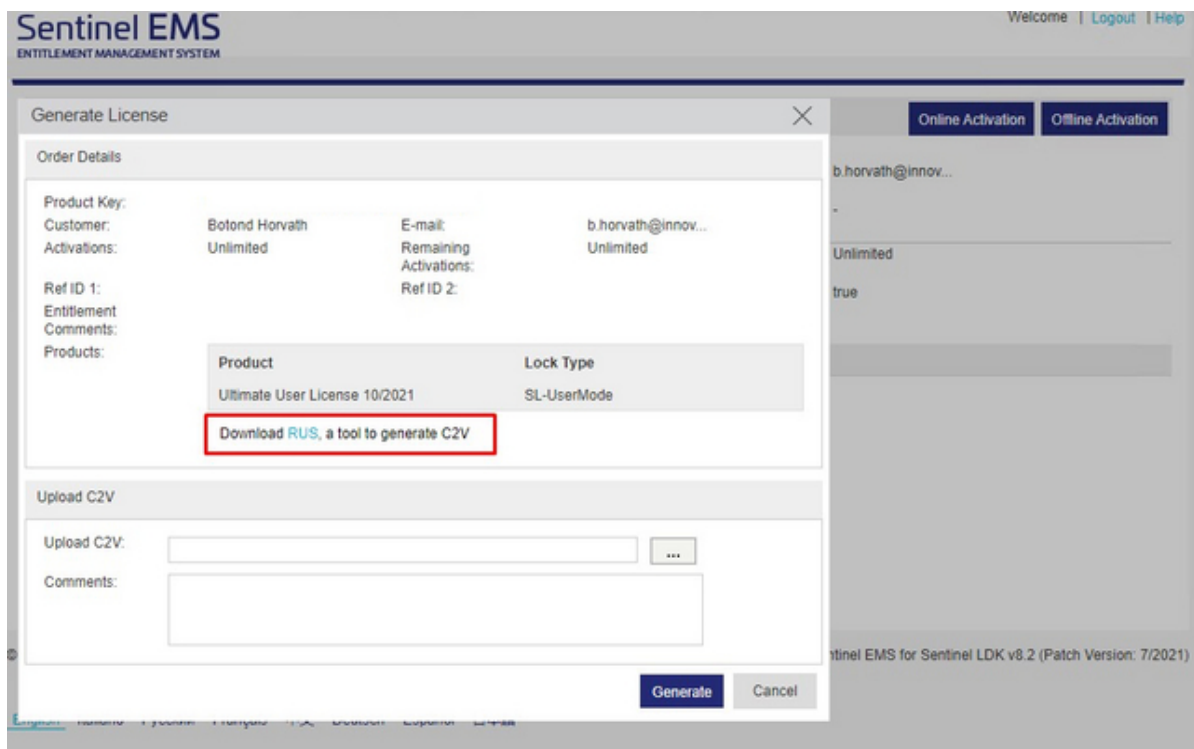
**Login**

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[English](#) [Italiano](#) [Русский](#) [Français](#) [中文](#) [Deutsch](#) [Español](#) [日本語](#)

Sentinel EMS login

Click on the **Offline Activation Button**

Appears Generate License window



**Sentinel EMS**  
ENTITLEMENT MANAGEMENT SYSTEM

Welcome | [Logout](#) | [Help](#)

**Generate License**

Order Details

Product Key:			
Customer:	Botond Horvath	E-mail:	b.horvath@innov...
Activations:	Unlimited	Remaining Activations:	Unlimited
Ref ID 1:			
Entitlement Comments:			
Products:			

Product	Lock Type
Ultimate User License 10/2021	SL-UserMode

**Download RUS, a tool to generate C2V**

Upload C2V

Upload C2V:  ...

Comments:

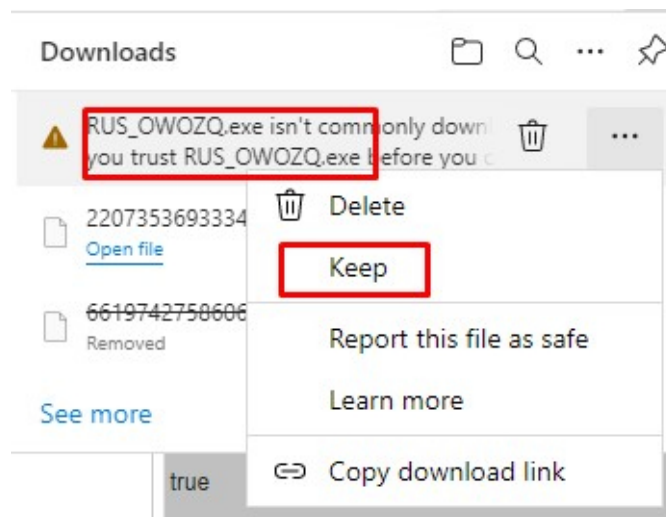
**Generate**    Cancel

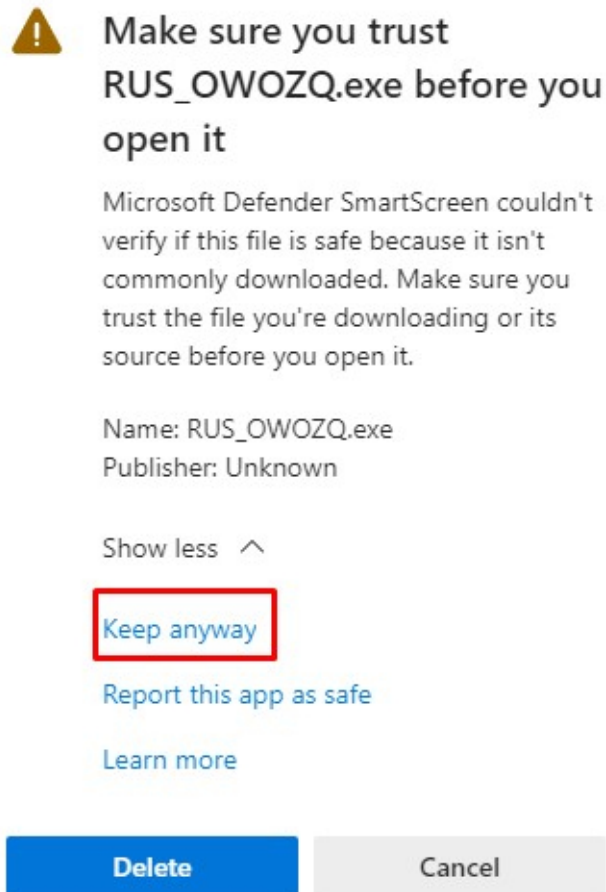
Sentinel EMS for Sentinel LDK v8.2 (Patch Version: 7/2021)

Download RUS tool

Download **RUS tool** (RUS\_OWOZQ)

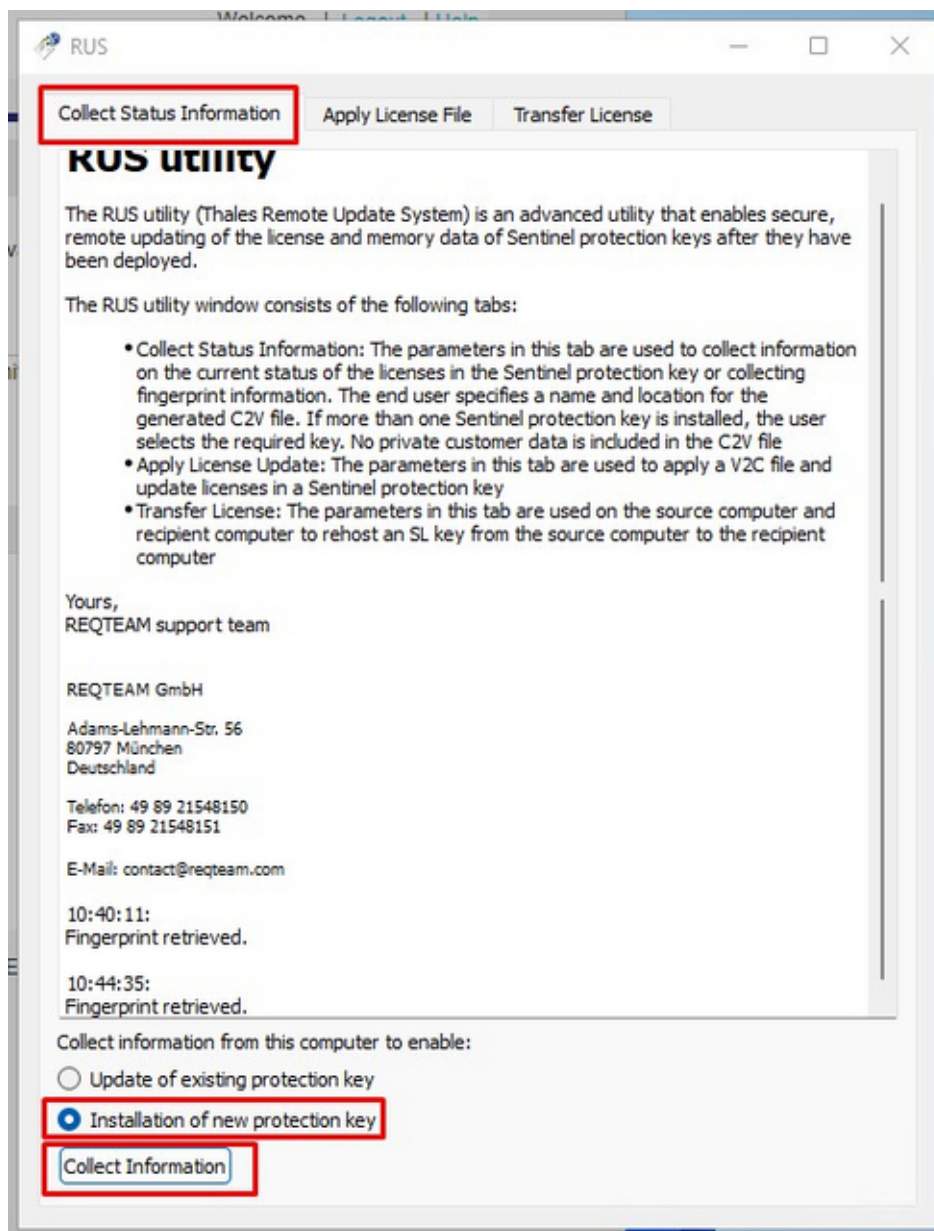
Some antivirus program can delete or quarantine this file. So, keep it when the antivirus asks for deleting or putting into quarantine.



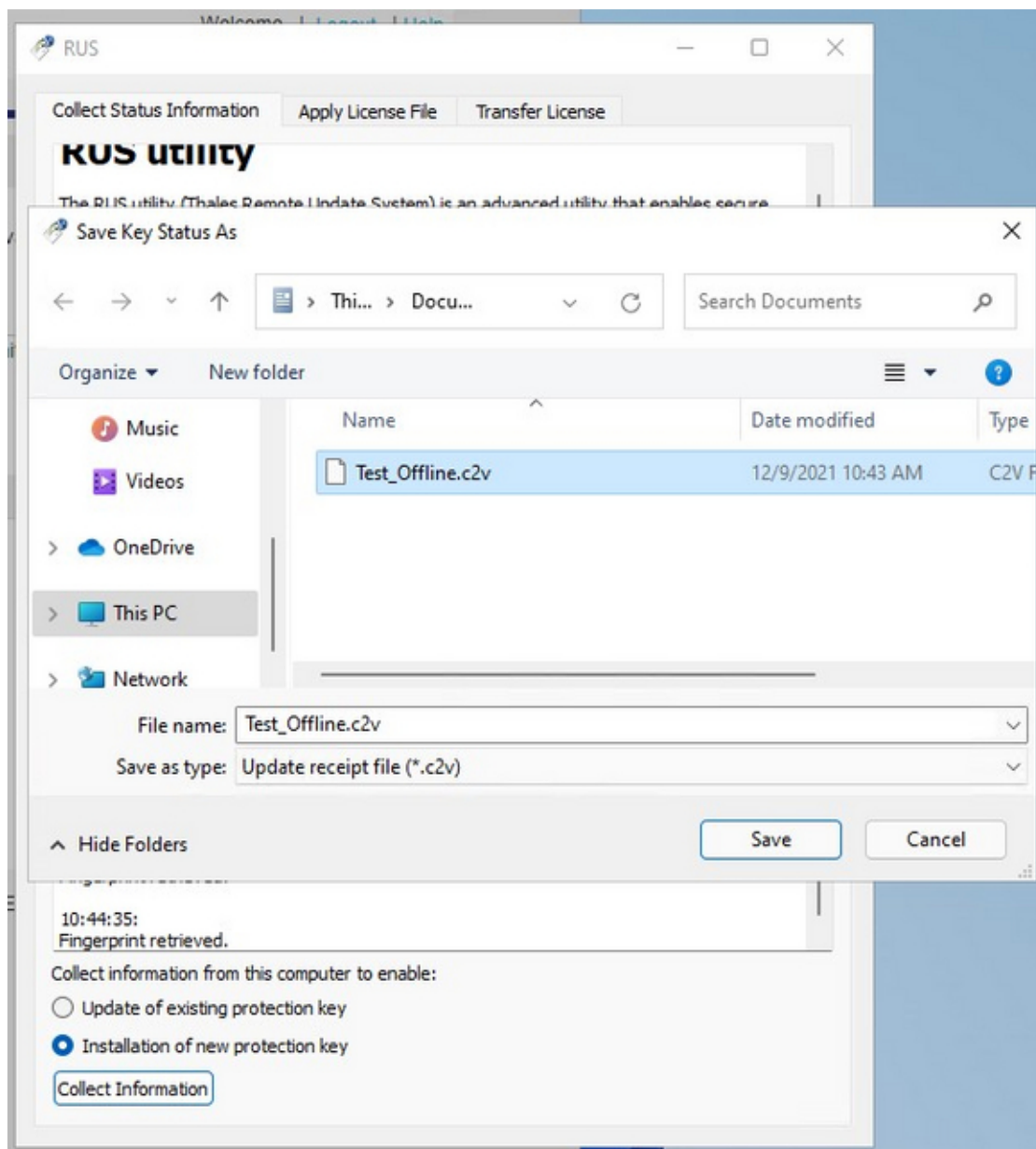


Keep RUS tool

1. execute RUS tool
2. select **Collect Status Information** and select C2V file type.
3. select **Installation of new protection key**
4. press **Collect Information**
5. save the C2V file



Generate c2v file



Save c2v file

C2V file can be used for license related operations.

At an online workstation **login with Product key** at the Sentinel EMS Customer portal

Upload the C2V file to [5]Sentinel EMS.

**Sentinel EMS**  
ENTITLEMENT MANAGEMENT SYSTEM

Welcome | [Logout](#) | [Help](#)

Generate License

Order Details

Product Key: -  
 Customer: Botond Horvath  
 Activations: Unlimited  
 E-mail: b.horvath@innov...  
 Remaining Activations: Unlimited  
 Ref ID 1: -  
 Entitlement Comments: -  
 Ref ID 2: -

Products:

Product	Lock Type
Ultimate User License 10/2021	SL-UserMode

Download [RUS](#), a tool to generate C2V

Upload C2V

Upload C2V:

Comments:

**Generate** Cancel

Upload c2v to EMS

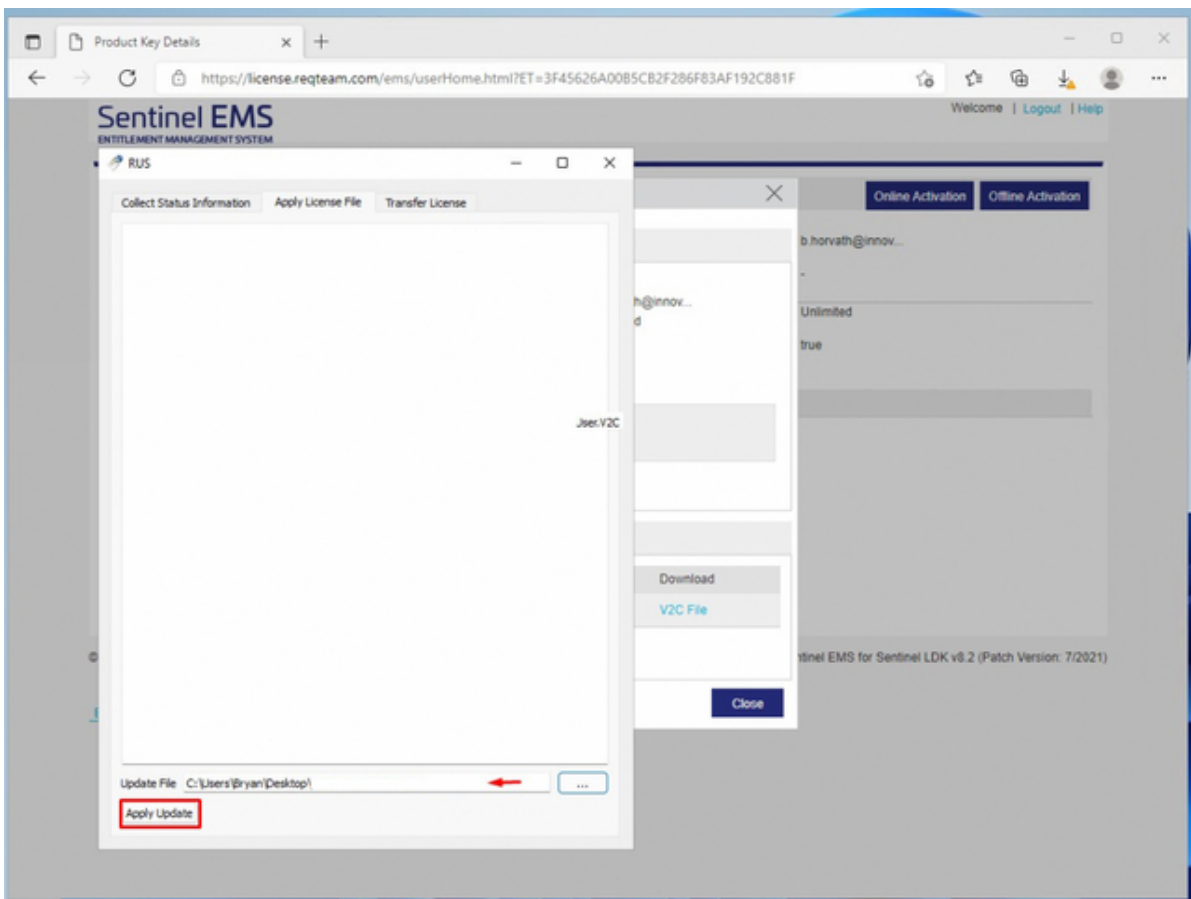
Press **Generate** to generate V2C file.

Download V2C file to your PC.

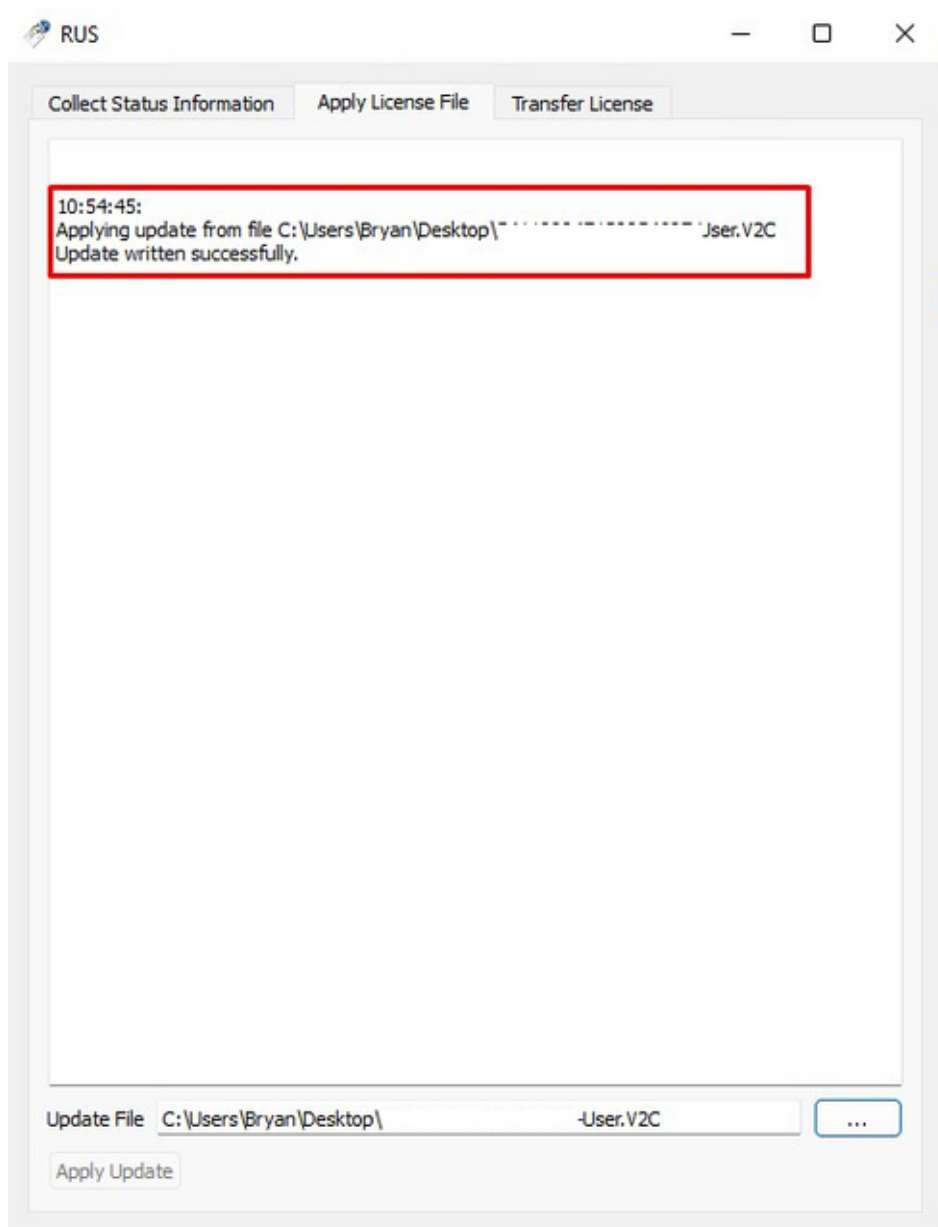
Key ID	Lock Type	Activation Date	Comments	Download
	SL-UserMode	2021-12-09		<a href="#">V2C File</a>

Download v2c

1. execute RUS Tool
2. select tab **Apply License File** and select the V2C file
3. press **Apply Update** to activate the license on the machine



Apply update V2C



Activation done

Activation done!

You can start to work with ReqEdit.

## Network license server ACC

A self-hosted licensing server is installed on the restricted network. The server holds all the license pools that can be used and has to contain a current snapshot of the license

database from ReqEdit License Server.

## Downloads

Download **haspdinst.exe** for windows

Version Downloads

Sentinel ACC haspdinst.exe 8.31 [6]haspdinst.zip [7]haspdinst.exe  
ACC windows versions

Download **aksusbd.tar** for linux

Version Downloads

Sentinel ACC aksusdb.tar 8.31 [8]aksusbd-8.31.1.tar  
ACC linux versions

Add note: please inform REQTEAM if you plan to use detaching, so the license can be generated for this purpose.

## Installing

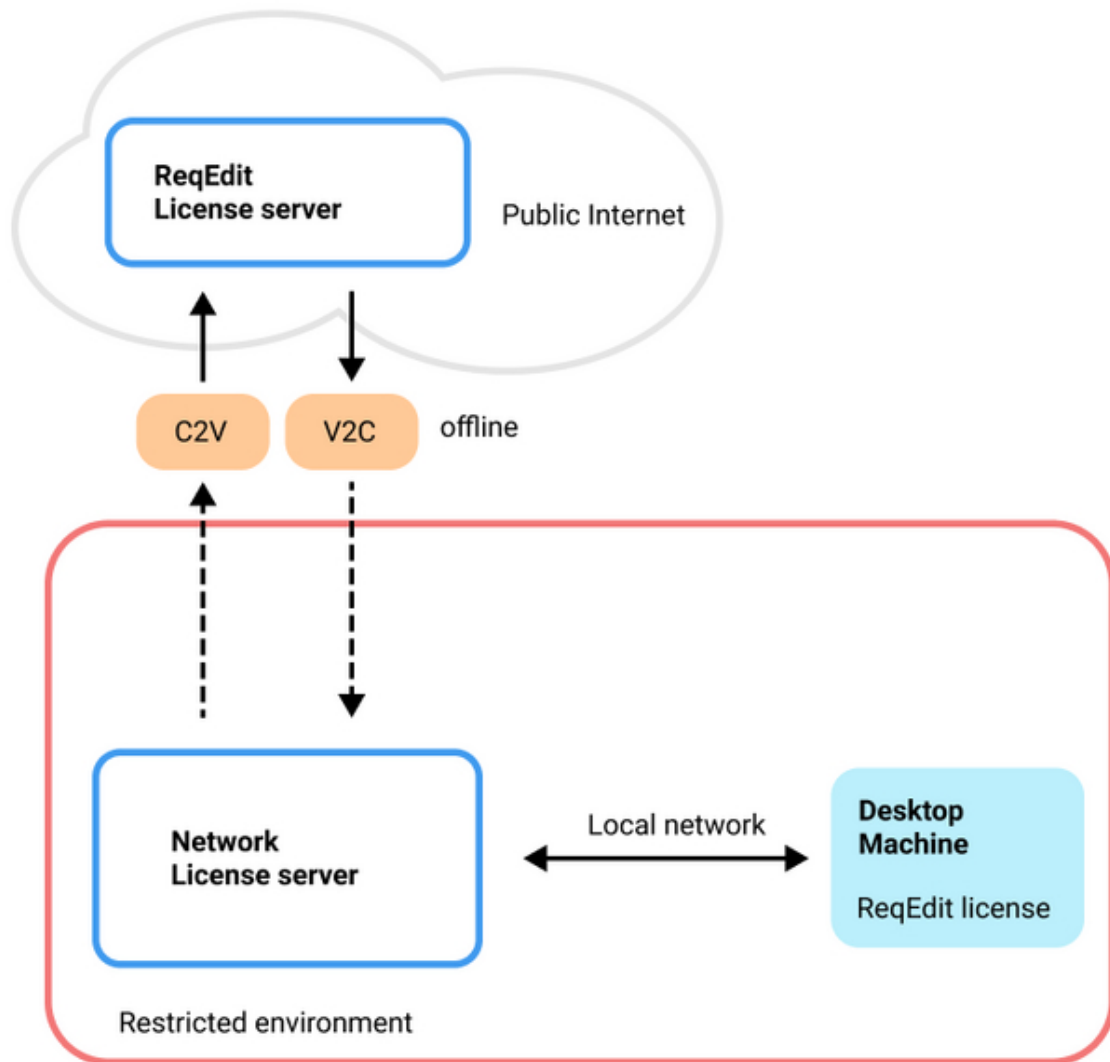


Diagram of restricted environment with self hosted ReqEdit License Server

NOTE: The installation needs to be made on the "future" license server.

NOTE: Windows can detect the haspdinst.exe as untrusted, Run Anyway

- **Port 1947** has to be opened
- Type **haspdinst -i** in the command line. The installation or upgrade process is performed automatically. A message is displayed informing you that the Sentinel LDK Run-time Environment was successfully installed.

On windows execute the following command to start the installation:

```
haspdinst -i
```

You can find an extended manual if you run the program in Windows File Explorer.

To check the status of the installation execute the command:

```
haspdinst -info
```

The version of the "Installed Package Drivers" needs to be **8.31**

To check the status of the installation execute the command

### **haspdinst -info**

In the ReqEdit application folder you need to start the executable "Start.exe" or "LicenseActivator.exe" depending on the version you have and insert the FQDN or IP of your license server.

Read more on the topic here [9]Installation guide Thales/Sentinel LDK EMS

## Updating

The update of the ACC needs to be done exactly like the install.

**Fist stop the windows service** (press windows START then type "Services") with the name "Sentinel LDK License Manager" and then execute

```
haspdinst -i
```

## Uninstalling

To **remove** Sentinel license server on Windows execute

```
haspdinst.exe -r
```

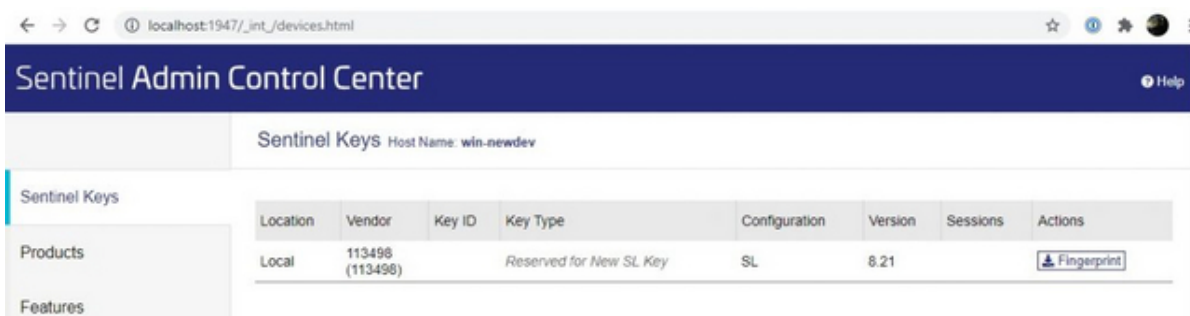
if for some reason the uninstallation does not work, you can **force remove** with

```
haspdinst.exe -fr
```

## Configuration

### C2V on Windows

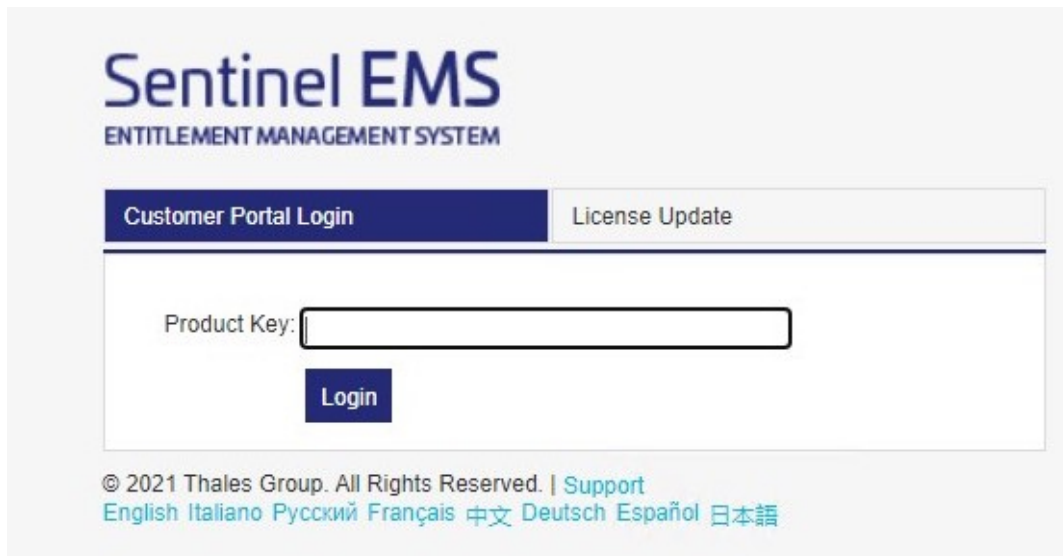
Go to the license server webpage [10]<http://localhost:1947> and select the "Sentinel Key" item.



ACC server showing the vendor keys, download the Fingerprint

press the "Fingerprint" button and save the C2V file in the downloads folder.

**Step 1:** Got to the customer login page [11]<https://license.reqteam.com/ems/customer-login.html>. You need to insert the product key to login.



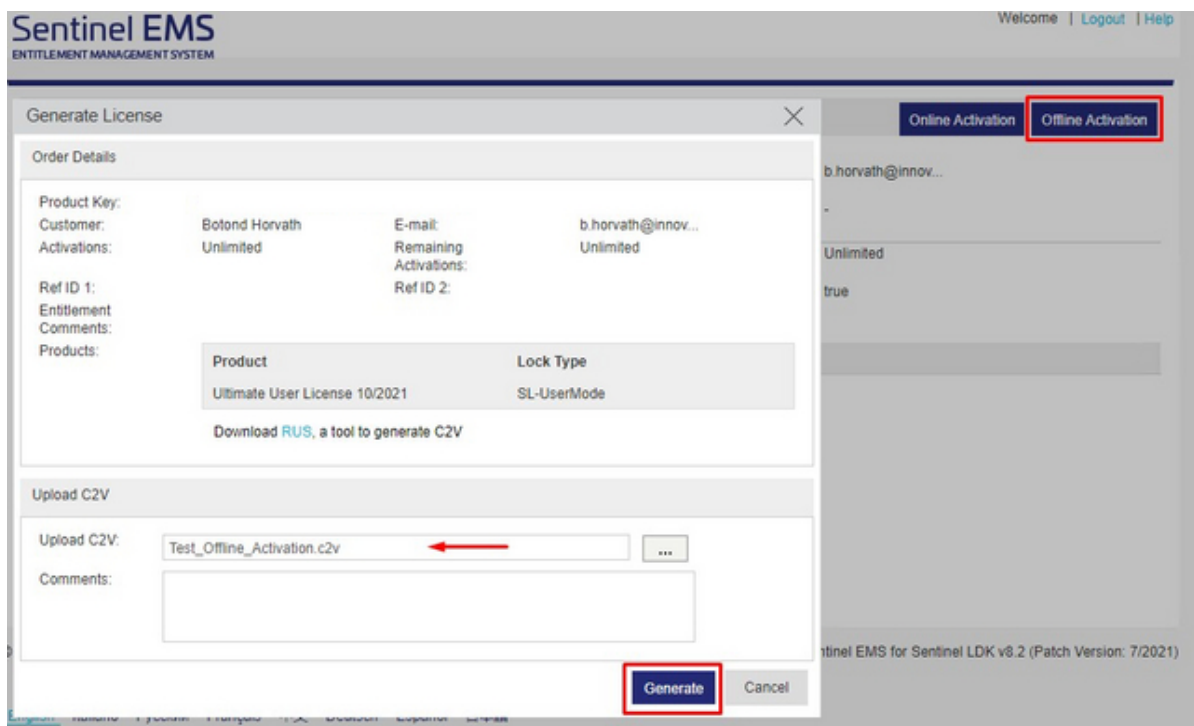
The image shows the Sentinel EMS Customer Portal Login page. At the top, the logo "Sentinel EMS" is displayed with the subtitle "ENTITLEMENT MANAGEMENT SYSTEM". Below the logo, there are two tabs: "Customer Portal Login" (selected) and "License Update". Under the "Customer Portal Login" tab, there is a form with a "Product Key:" label and a text input field. Below the input field is a blue "Login" button. At the bottom of the page, there is a copyright notice: "© 2021 Thales Group. All Rights Reserved." followed by a "Support" link and a list of languages: "English Italiano Русский Français 中文 Deutsch Español 日本語".

Login Sentinel EMS

**Step 2:** Select "Offline Activation".

**Step 3:** Upload the created .c2v file.

**Step 4:** Click the "Generate" button and save the .v2c file to a folder you like.



The image shows the "Generate License" dialog box in the Sentinel EMS application. The dialog has a title bar "Generate License" and a close button. It contains two main sections: "Order Details" and "Upload C2V". The "Order Details" section displays the following information: Product Key: (blank), Customer: Botond Horvath, E-mail: b.horvath@innov..., Activations: Unlimited, Remaining Activations: Unlimited, Ref ID 1: (blank), Ref ID 2: (blank), Entitlement Comments: (blank), and Products: (blank). Below this information, there is a table with two columns: "Product" and "Lock Type". The table contains one row: "Ultimate User License 10/2021" and "SL-UserMode". Below the table, there is a link: "Download [RUS](#), a tool to generate C2V". The "Upload C2V" section has a text input field for "Upload C2V:" with the value "Test\_Offline\_Activation.c2v" and a red arrow pointing to it. Below the input field is a "Comments:" label and a text area. At the bottom right of the dialog, there are two buttons: "Generate" (highlighted with a red box) and "Cancel".

Upload c2v file

Update/Attach licenses

**Step 5:** Download the generated V2C file (or the V2C file received from us)

Key ID	Lock Type	Activation Date	Comments	Download
	SL-UserMode	2021-12-09		V2C File

Download V2C file

**Step 6:** Upload to your local license server [12]<http://localhost:1947> in the menu "Update/Attach".

The screenshot shows the Sentinel Admin Control Center (ACC) interface. The main heading is "Sentinel Admin Control Center". Below it, the page title is "Update/Attach License" with the host name "win-newdev". The left sidebar contains a list of menu items: "Sentinel Keys", "Products", "Features", "Sessions", "Update/Attach" (highlighted), "Access Log", "Configuration", and "Diagnostics". The main content area has a "Select File:" label, a file selection button, and a "File Format:" dropdown menu. Below the dropdown are "Apply File" and "Cancel" buttons.

ACC server update/attach V2C license file page

**Step 7:** Check in in the menu "Products", if the license was correct inserted/updated.

## C2V on Linux

If you are using Linux, the procedure is a little bit more complex. You need to log in to your license server (ACC) and click the tab "Diagnostics". Here you find a button named "Generate ID File". After clicking this button you got an ID file to save. Please save this file to a local drive and change the file extension to .c2v.

Now open this C2V file in a text editor and change the structure of the ID file, which should look like this (characters truncated with ...):

```
<?xml version="1.0" encoding="UTF-8" ?>
<location>
<license_manager id="F07reQmW9igotxo.....1b4VD5kRUi4qsA" time="0">
<version>24.4.1.110802</version>
<hostname>safenet</hostname>
<name>SAFENET</name>
<host_fingerprint type="SL-AdminMode" crc="123456789">
MXhJSYlJlQewwFkjBPbITRjkSqpKZebAq3PcANCwG.....==
</host_fingerprint>
</license_manager>
</location>
```

and change the file to this:

```
<?xml version="1.0" encoding="UTF-8" ?>
<hasp_info>
<host_fingerprint type="SL-AdminMode" crc="123456789">
MXhJSYlJlQewwFkjBPbITRjkSqPKZebAq3PcANCwG.....==
</host_fingerprint>
</hasp_info>
```

## License detaching

Note: please inform REQTEAM if you plan to use detaching, so the license can be generated for this purpose.

When users want to have a working copy of ReqEdit outside the restricted environment. License detaching is possible by using the Detach Tool Add-on.

Detaching licenses will lock the license for a period of time for a specific machine. Locking a license has to be done inside the restricted environment, after which it can be disconnected from the network.

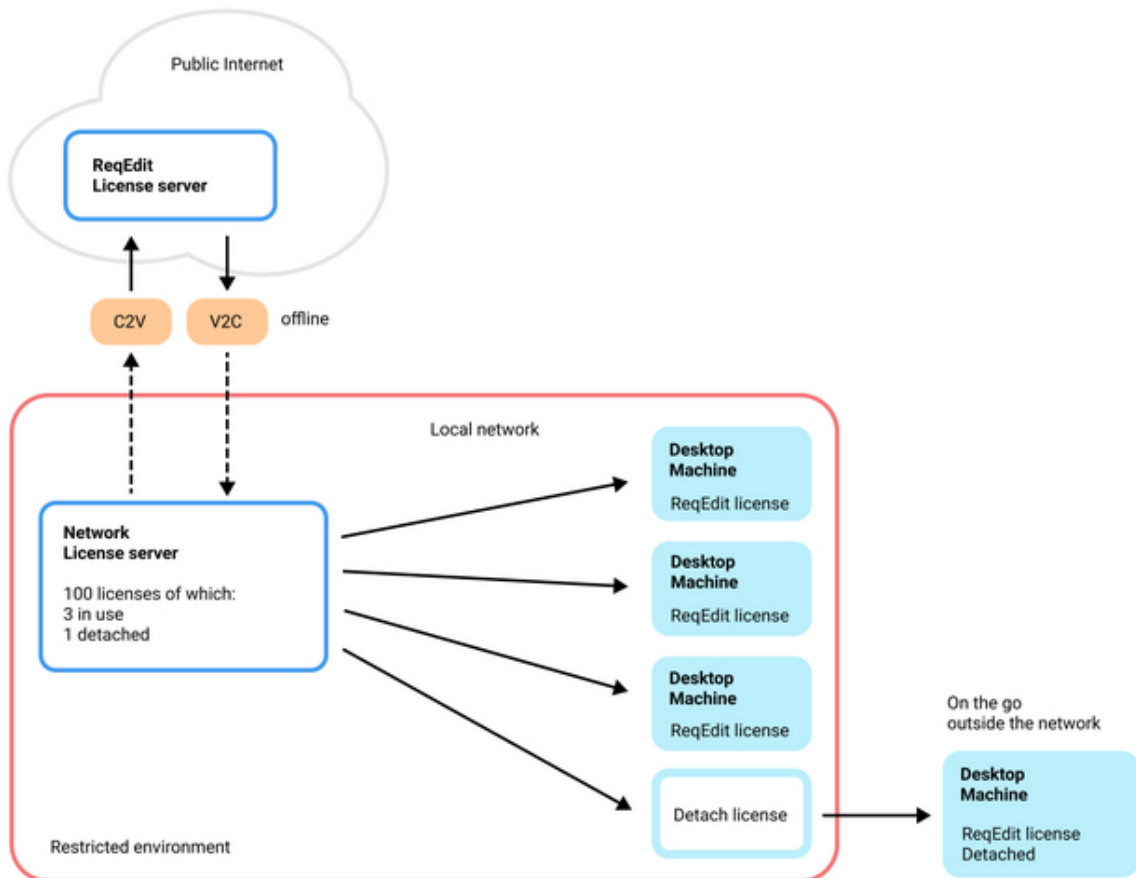


Diagram showing detach mechanism to work outside network license server

**NOTE:** : To be able to use ReqEdit on a workstation which leaves the company network, you need to detach a license for it. To achieve this goal ACC must be installed on the workstation! Installing ACC on the workstation (jump to ACC install section)

**Configuration of ACC is not needed. Detach tool will handle the license transfer automatically.**

## Requirements

The ReqEdit Detach tool needs to run on a Windows operating system with .Net library (at least version 4.8 or higher) installed.

Additional the Sentinel Admin Control Center needs to be installed and configured locally. Please ensure that a valid VLIB DLL (i.e. haspvlb\_113498.dll is corresponding for ReqEdit licenses) is installed. The file needs to be in the folder.

“C:\Program Files (x86)\Common Files\Aladdin Shared\HASP”.

About detailed requirements, read more [13]here.

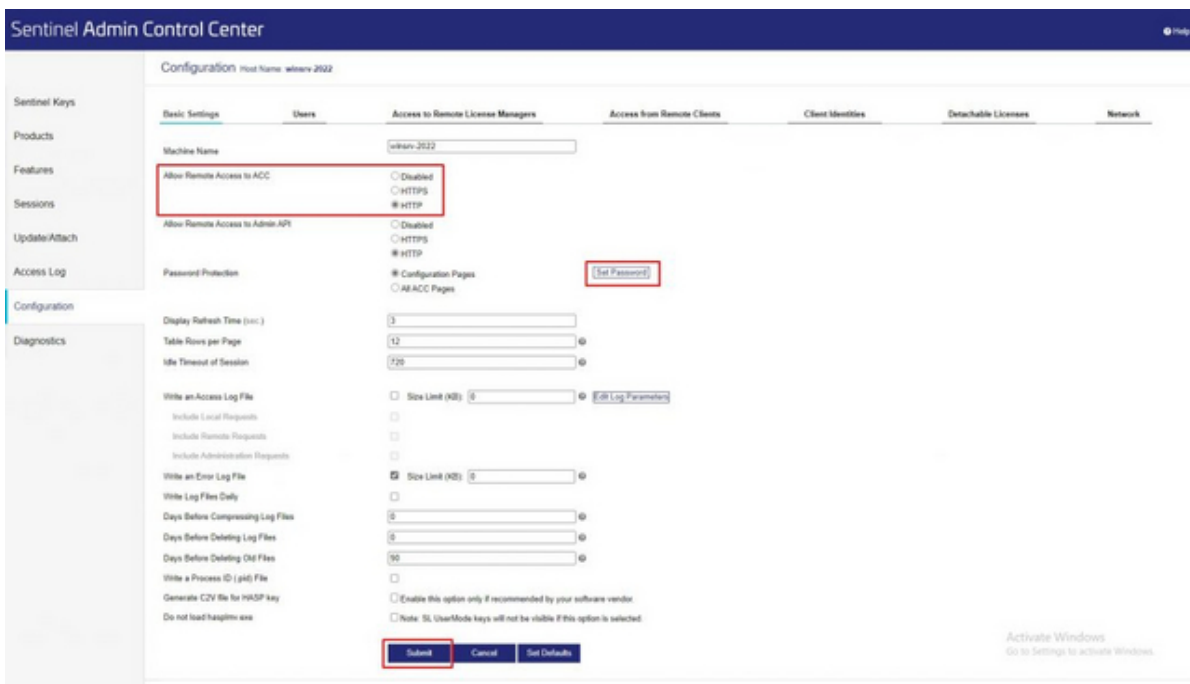
## Enable Detaching on main server

Before you detach a license, you need to make **configurations on the server** in order to enable detaching on your main server

To do that you need to login on the ACC license server and select the menu “Configuration” and select the tab “Detachable Licenses”

### 1. Allow Remote Access to ACC as HTTP or HTTPS

### 2. Set Password



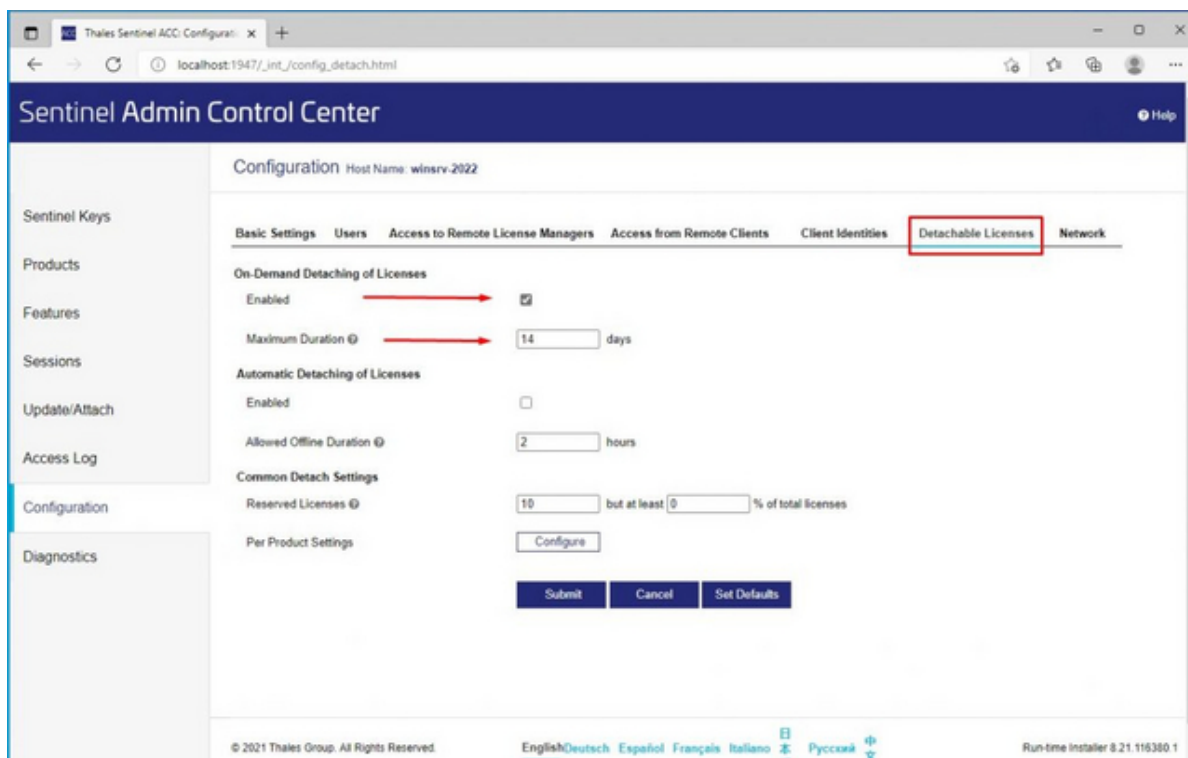
ACC server configuration for HTTP or HTTPS access

### 3. Go to the Detachable Licensing Tab

Please activate the checkbox “Enable Detaching of Licenses”. You can determine the maximum detach duration in days.

Additional you can set the number of licenses you want to keep on the server (to be not detachable) in the field “Reserved Licenses”. Here you can enter either an absolute number or a percent value. .

If you want to do different settings for your different products, you can do this by click on the button “Per-Product Settings”.

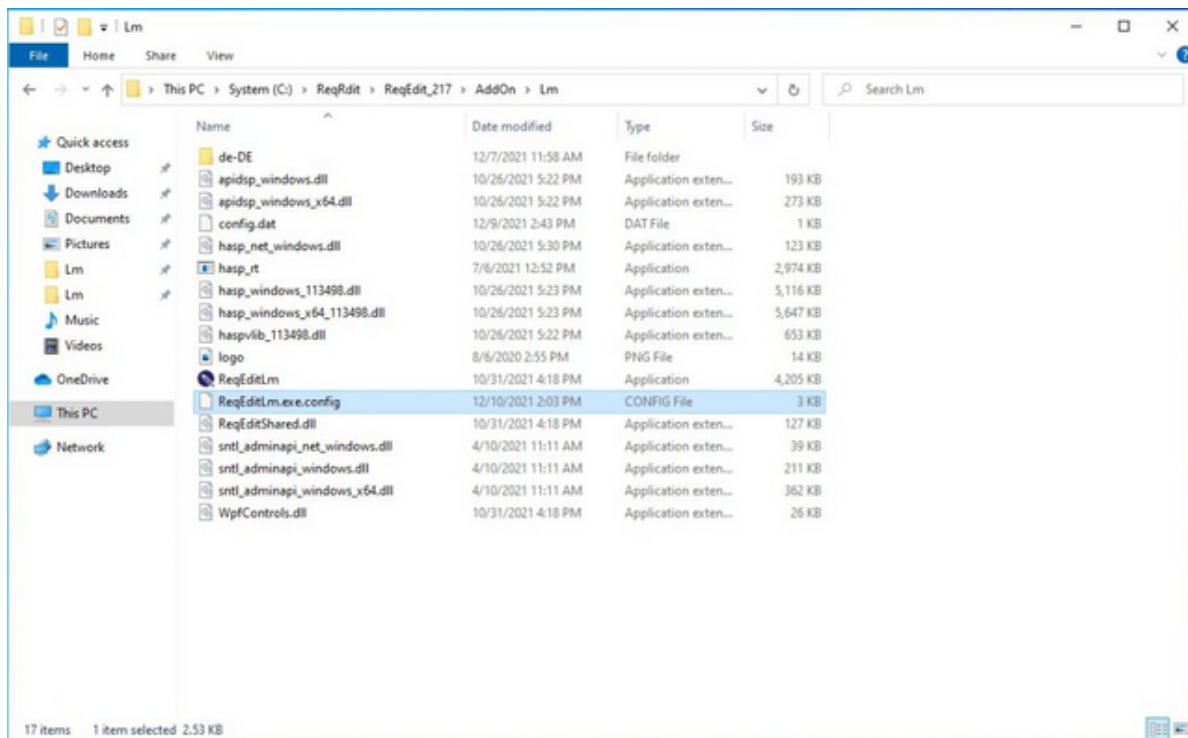


ACC Detach license tab

Configure Detach tool

The tool has to be configured on the workstation

Open **Reqedit\AddOn\Lm\ReqEd** itLm.exe.config



ReqEditLm.exe.config location in Windows Explorer

**Set server address to the ACC server**

serverAddress - **10.0.0.10** or the FQDN like: **server.localdomain.local**

```
...
<setting name="LicenseServerAddress" serializeAs="String">
<value>server.localdomain.local</value>
</setting>
...
```

## Generate config.dat

```
reqeditlm.exe -pass password -out config.dat
```

password - the access password for ACC server (that was set in the previous steps)  
outfile - config.dat the file that will be used in the config xml

**NOTE: If you want to use different out file please update the xml to use that**

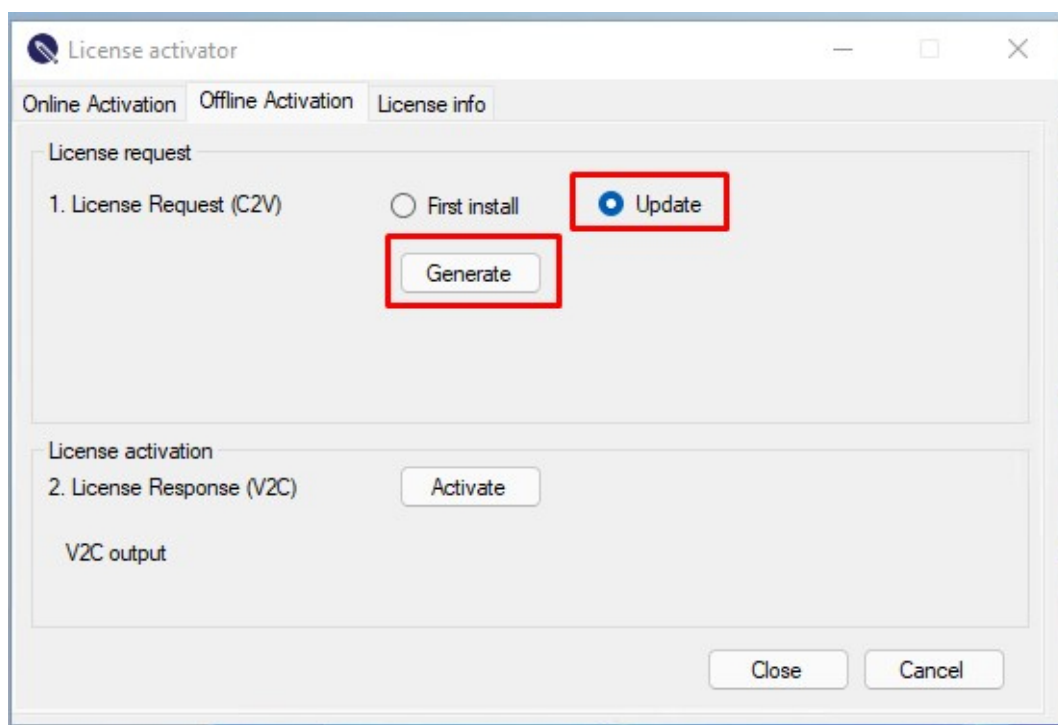
To use the Detach Tool please open [14]Users Guide

## License Updates

If your license is arriving the expire date or even some days before we will provide you an update key (file ending .V2C) and you request a new one.

### A. You do not have a license manager installed (no ACC)

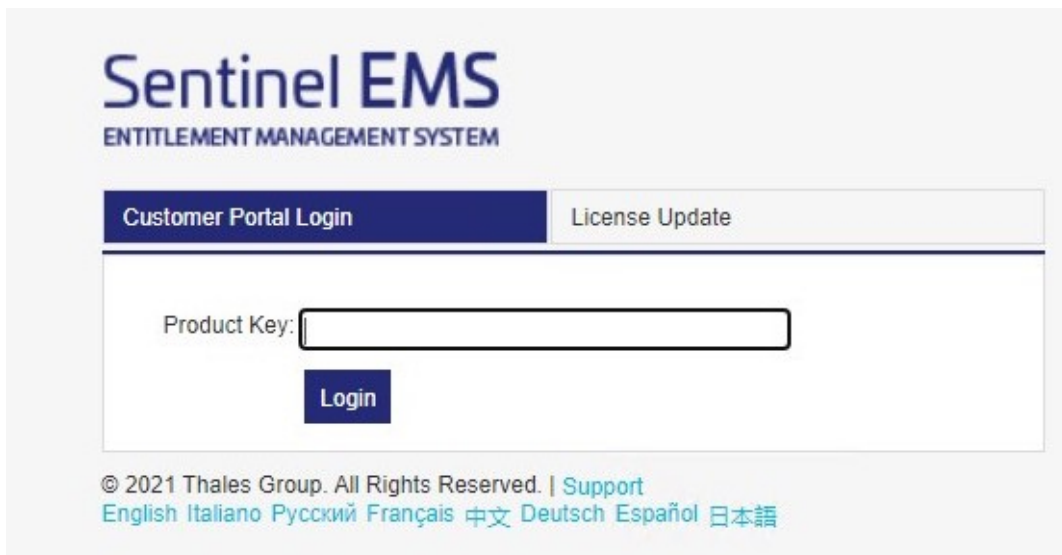
You need to activate this license with your "LicenseActivation" tool from ReqEdit client. Select offline activation and press the "Activate" button and select the V2C File to update your license.



### Update License window

At an online workstation **login with Product key** at the Sentinel EMS Customer portal

[15]<https://license.reqteam.com/ems/login.html>



**Sentinel EMS**  
ENTITLEMENT MANAGEMENT SYSTEM

Customer Portal Login    License Update

Product Key:

**Login**

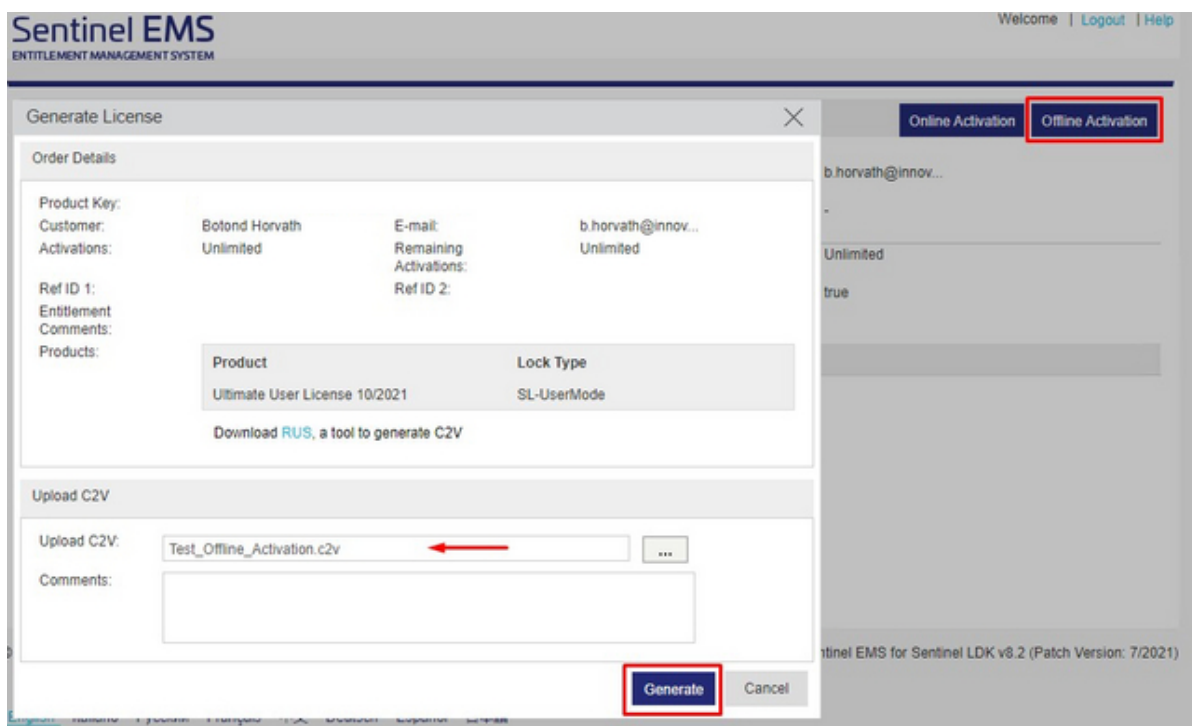
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## Sentinel EMS Login

Choose **Offline Activation** tab. A new window appears.

In the Generate License window **upload** the saved **C2V** file.

Then click **Generate**.



**Sentinel EMS**  
ENTITLEMENT MANAGEMENT SYSTEM

Welcome | [Logout](#) | [Help](#)

Online Activation    **Offline Activation**

**Generate License**

Order Details

Product Key:   
 Customer: Botond Horvath    E-mail: b.horvath@innov...  
 Activations: Unlimited    Remaining Activations: Unlimited  
 Ref ID 1:    Ref ID 2:  
 Entitlement Comments:  
 Products:

Product	Lock Type
Ultimate User License 10/2021	SL-UserMode

Download [RUS](#), a tool to generate C2V

Upload C2V

Upload C2V:

Comments:

**Generate**    Cancel

Uploading the .c2v file

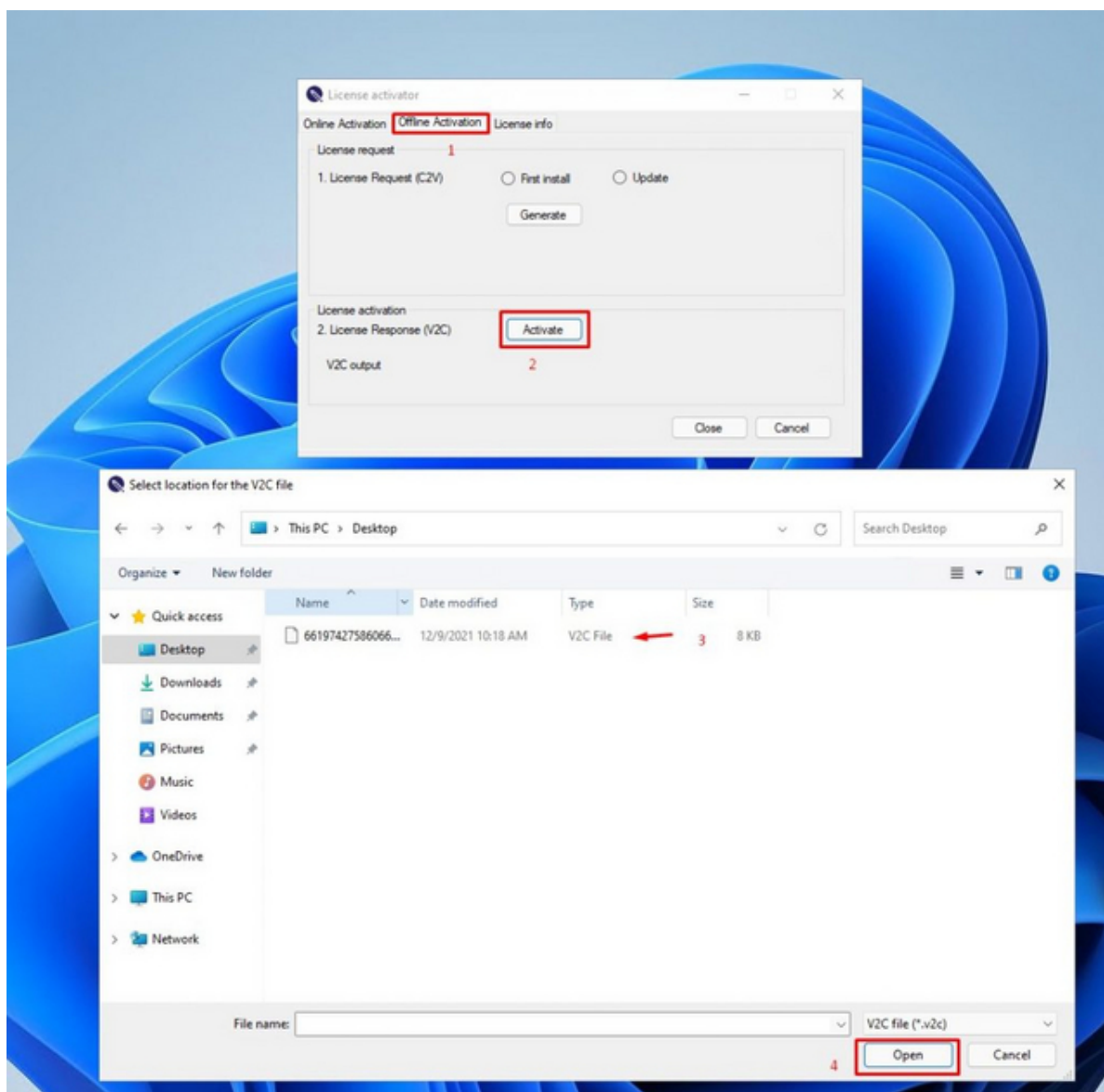
The Key ID. appears

**Download** the **V2C** file

Key ID	Lock Type	Activation Date	Comments	Download
<input type="text"/>	SL-UserMode	2021-12-09		<b>V2C File</b>

Downloading the V2C file

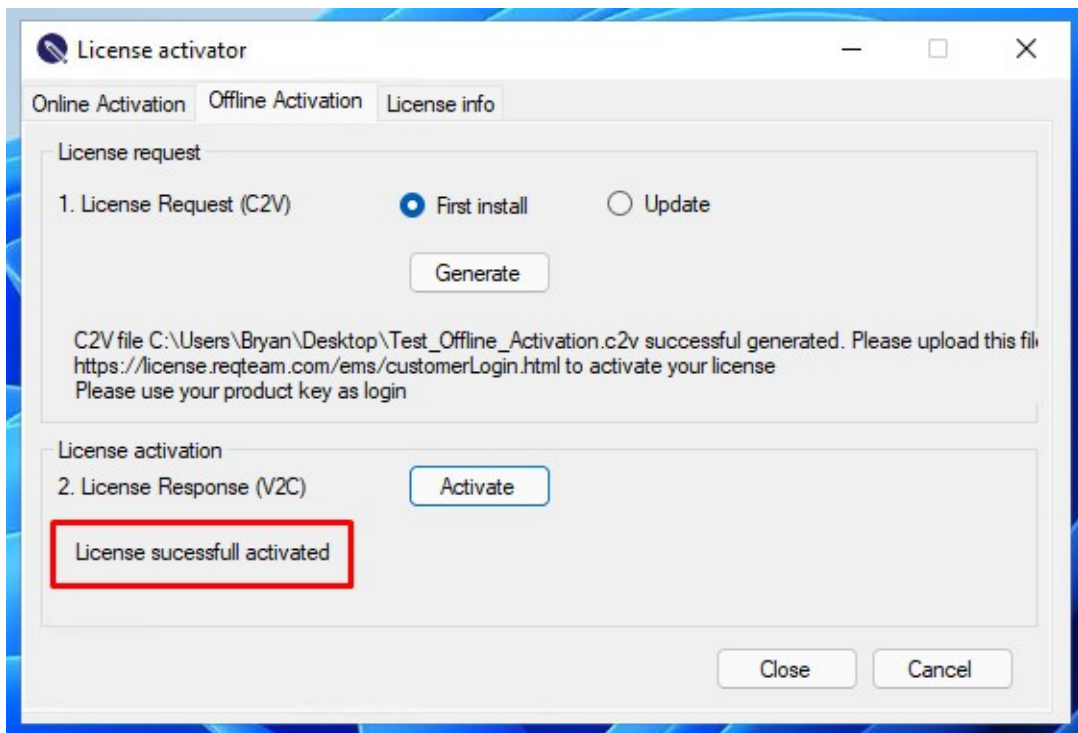
Go to the **License Activator** window and press **Activate** button



Activate offline with key

In the Browser window select **V2C** file

Press **Open**

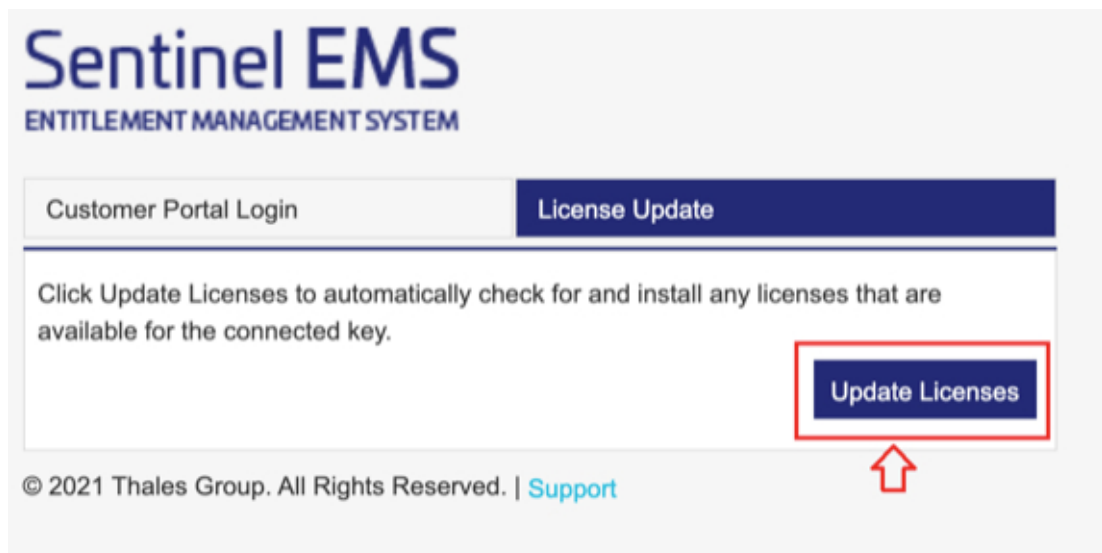


License activator window, offline activation tab, license activation success

**Open** ReqEdit and start working with it.

### **B. You have a license manager installed and you don't have a V2C file**


Alternatively you can update automatically if you have installed a license server (Admin Control Center in the minimum version 8.31) on the computer that holds the license. You need to open the url [16]<https://license.reqteam.com/ems/customerLogin.html> on this computer and click license update.



EMS Login

### **C. You have a license manager installed, but with no or restricted internet acces**

Login to Sentinel EMS Customer Portal. Open the url [17]<https://license.reqteam.com/ems/customerLogin.html> and enter Product Key.



**Sentinel EMS**  
ENTITLEMENT MANAGEMENT SYSTEM

Customer Portal Login License Update

Product Key:

Login

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[English](#) [Italiano](#) [Русский](#) [Français](#) [中文](#) [Deutsch](#) [Español](#) [日本語](#)

## Sentinel EMS Login

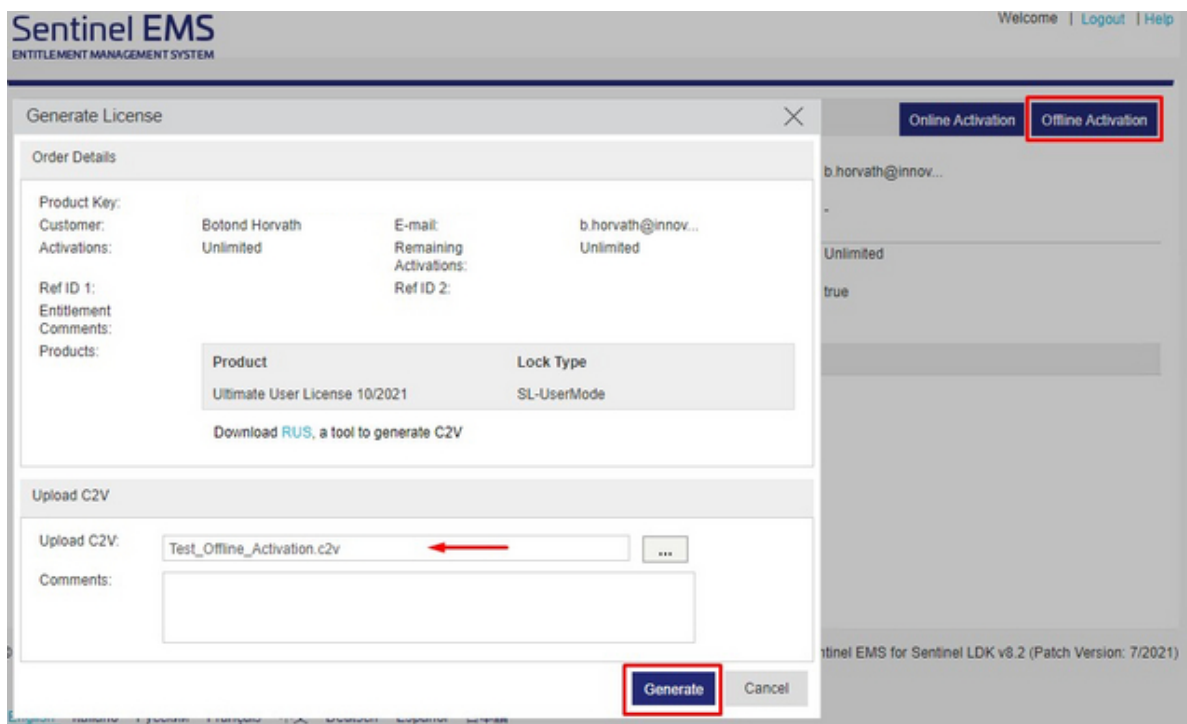


Sentinel Admin Control Center

Sentinel Keys Host Name: winsrv-2022

Location	Vendor	Key ID	Key Type	Configuration	Version	Sessions	Actions
Local	113498 (113498)		HASP SL AdminMode		8.32		<a href="#">Products</a> <a href="#">Features</a> <a href="#">Sessions</a> <a href="#">Certificates</a> <a href="#">C2V</a>

Upload the C2V file to Sentinel EMS. Press **Generate** for generating v2c file.



**Sentinel EMS**  
ENTITLEMENT MANAGEMENT SYSTEM

Welcome | Logout | Help

Generate License

Order Details

Product Key:   
 Customer: Botond Horvath   
 Activations: Unlimited   
 E-mail: b.horvath@innov...   
 Remaining Activations: Unlimited   
 Ref ID 1:   
 Entitlement Comments:   
 Products:   
 Product: Ultimate User License 10/2021   
 Lock Type: SL-UserMode   
 Download [RUS](#), a tool to generate C2V

Upload C2V

Upload C2V:

Comments:

**Generate** Cancel

Online Activation Offline Activation

b.horvath@innov...

Unlimited

true

Sentinel EMS for Sentinel LDK v8.2 (Patch Version: 7/2021)

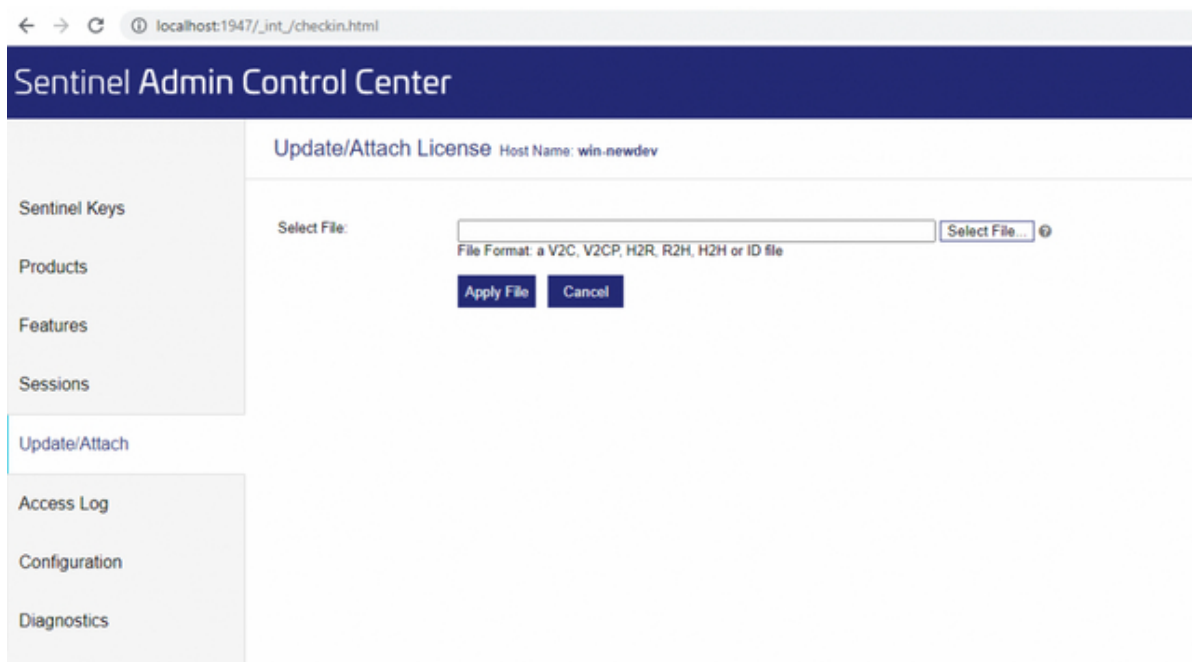
## EMS C2V file upload

Download the generated V2C file.

Key ID	Lock Type	Activation Date	Comments	Download
	SL-UserMode	2021-12-09		<a href="#">V2C File</a>

Download V2C file

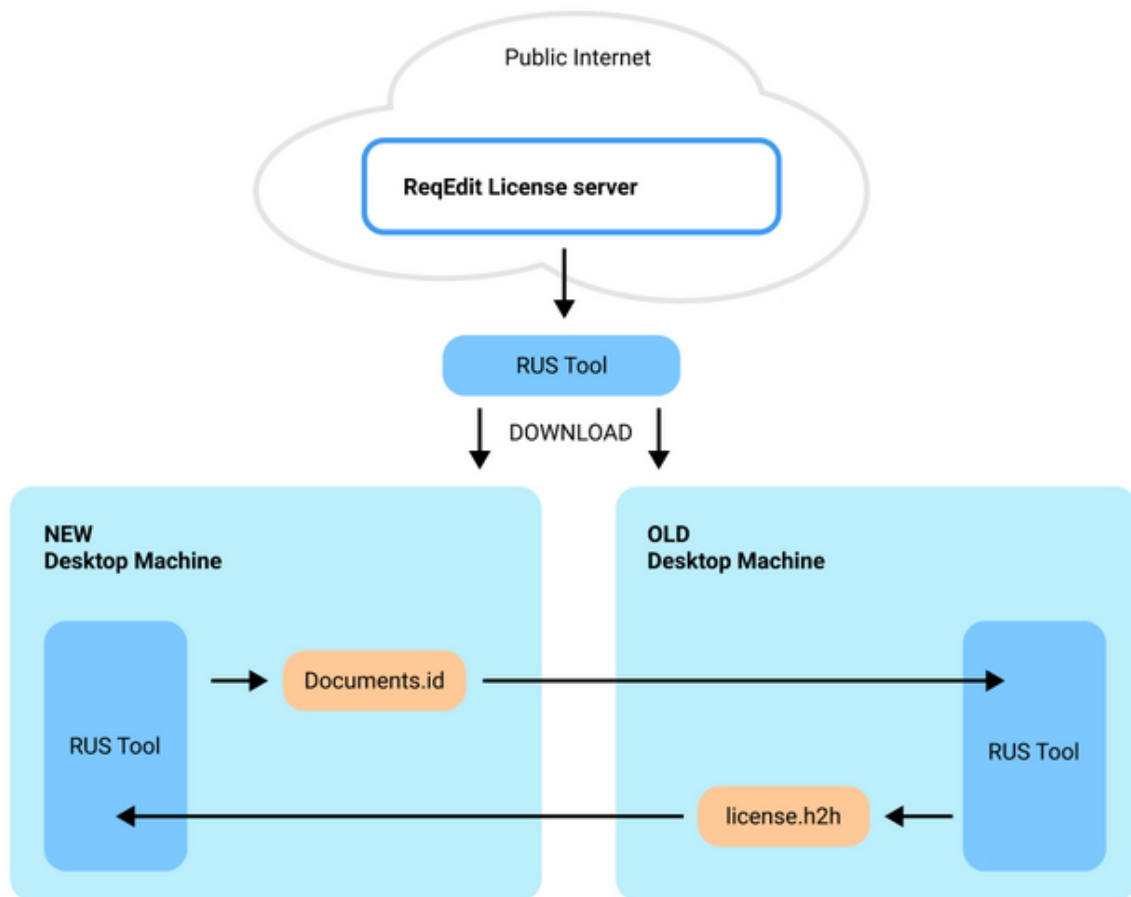
**Upload** the generated **.v2c** file to your local server ACC in the menu "Update/Attach".



ACC server update/attach v2c file

## Transferring License

To transfer an user license from an old PC to a new PC you need the RUS tool on both PCs.



License transfer diagram between two machines

## Download RUS Tool

You can download it from our customer area:

[18]<https://license.reqteam.com/ems/customerLogin.html>

For login you need to enter your product key, use the key you already used for activation.

After login you click on **Offline Activation** button and **download the RUS tool**.

**Sentinel EMS**  
ENTITLEMENT MANAGEMENT SYSTEM

Welcome | Logout | Help

Generate License

Order Details

Product Key:  
Customer: Botond Horvath E-mail: b.horvath@innov...  
Activations: Unlimited Remaining Activations: Unlimited  
Ref ID 1:  
Entitlement Comments:  
Ref ID 2:  
Products:

Product	Lock Type
Ultimate User License 10/2021	SL-UserMode

[Download RUS, a tool to generate C2V](#)

Upload C2V

Upload C2V:  ...  
Comments:

Generate Cancel

Sentinel EMS for Sentinel LDK v8.2 (Patch Version: 7/2021)

Download RUS tool

## Generate ID file

### IF YOU USE ACC (LICENSE SERVER)

For transferring License from a Network license server to another , you need to have a Re-hostable license.

Open ACC on the new server to generate the ID file

Go to Diagnostics of your license server and click on "Create ID file" button on the top right of the page

**Sentinel Admin Control Center**

Diagnostics Host Name: win11-gc

**Sentinel Keys**

**Products**

**Features**

**Sessions**

**Update/Attach**

**Access Log**

**Configuration**

**Diagnostics**

License Manager Version: 26.0 Build 123582

Computer Name: [Create ID File]

Host Operating System: [Create ID File]

Protocols: [Create ID File]

License Storage: Secure, Schema 1

Authorized Vendor IDs: Unknown

Uptime: N/A

3 hours 50 minutes 55 seconds, local time 2022-04-05 14:11:25

Template Sets: \_int\_de.17.0.alp.es.17.0.alp.fr.17.0.alp.it.17.0.alp.ja.17.0.alp.ru.17.0.alp.zh\_CN.17.0.alp

Current Template: English 17 (30 September 2021 Build 1)

Current Usage: 0 logins, 0 sessions

Login Requests: 0 (0 peak simultaneous logins)

Requests: 349 local, 15 remote, 364 total

Data Volume: 3,445,635 received, 5,661,447 transmitted

Errors: 0 Key related, 0 in Transport

Threads: 1 (7 peak), 0 req/sec, 0.0 ms 90th, 0% usage

Storage: 0 req/sec, 0.0 ms 90th, 0% usage

Memory Used: 8,847,649 (4,417 blocks)

Run-time: Run-time Installer: 8.31, Run-time Package: 8.31

**Generate Report**

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English Deutsch Español Français Italiano 日本語 Русский 中文

Generate ID file for license transfer

Save the file generated.

## IF YOU DON'T USE ACC (LICENSE SERVER)

Execute the RUS tool on the new PC, where you want to have the license transferred. Select the **Transfer License** tab. Please press on the [...] button to select the location and choose a name for the Recipient Information ID file (the name of the file is not important).

Press **Collect and Save Information** to generate the file. If the process was successful, you will get a confirmation window.

✖ Generate ID file

Copy the generated Recipient ID file to the old PC, where the active license is.

**Please do not close the RUS tool on the new PC, we need it for later.**

## Generate license transfer file


Run the RUS tool on the OLD PC.

Select the **Transfer License** tab. Check if your license is transferable, it has to be listed in the license list.

*Note: If the license is **not** transferable you need to contact the REQTEAM support team to initiate a manual transfer.*

*Note: if you use ACC you need to have Rehostable license.*

Sentinel Keys Host Name: winsev-2022

Location	Vendor	Key ID	Key Type	Configuration	Version	Sessions	Actions
Local			HASP SL AdminMode Rehostable		8.32	1	[Products] [Features] [Sessions] [Certificates] [CIV]

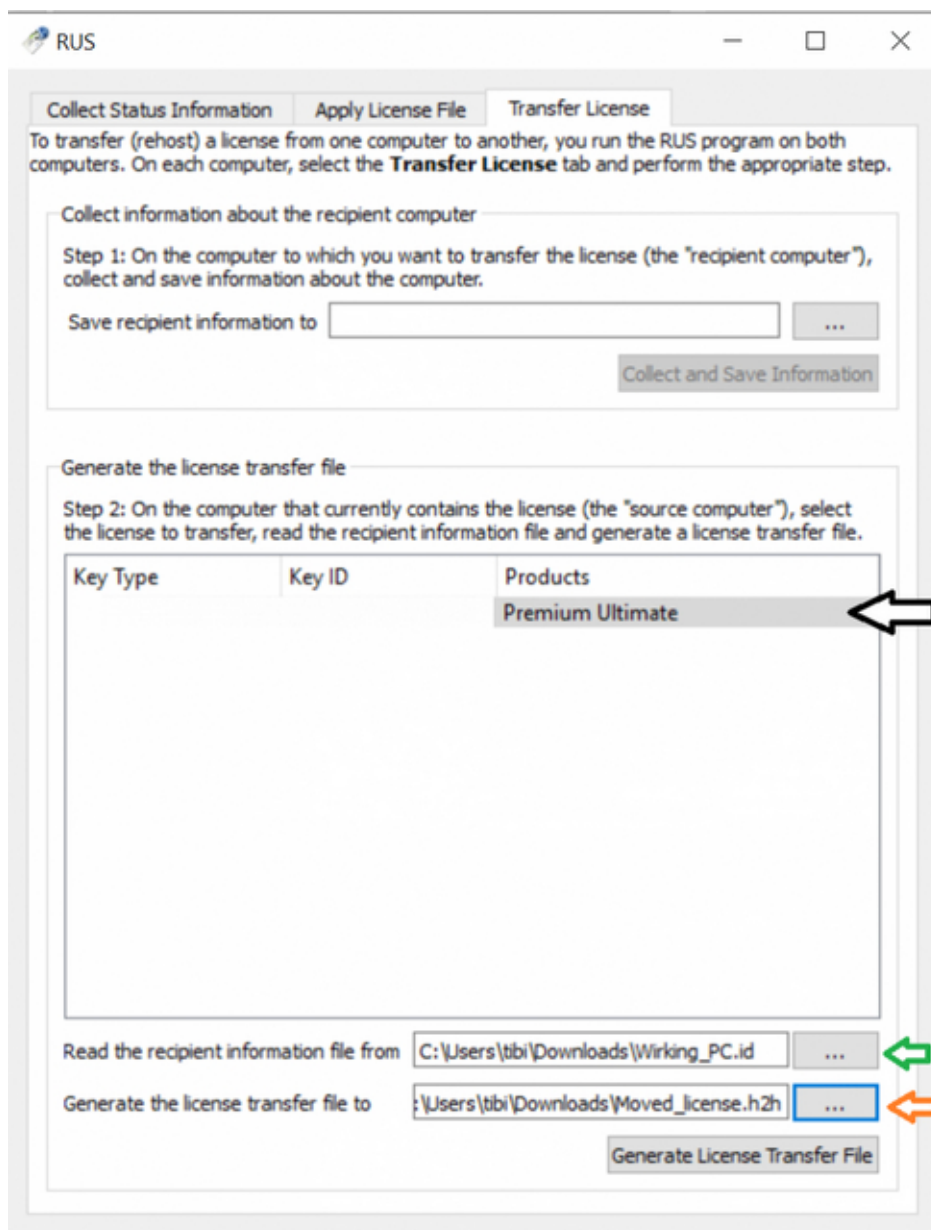
Rehostable license icon for ACC user

Select the license you want to transfer from the list

Select the Recipient Information ID file copied from the NEW PC.

Select the destination of the Transfer License File, by selecting the [...] button. Press **Generate License Transfer File** button.

The **.h2h** file needs to be copied to the NEW PC.



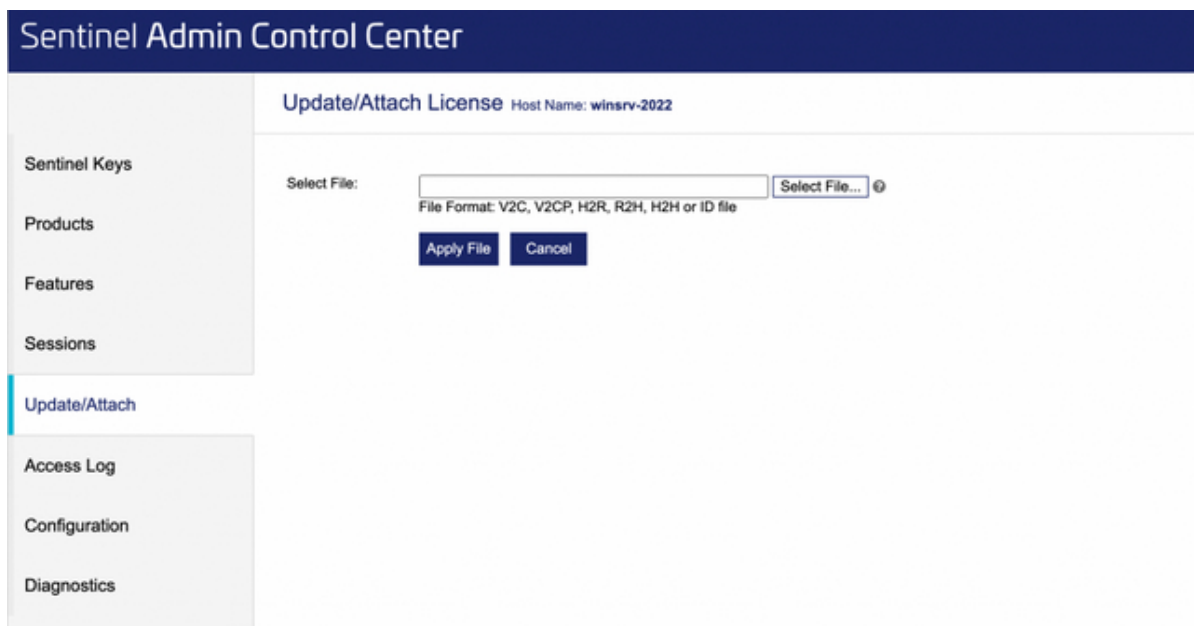
Generate license transfer file

You can close the RUS tool on the OLD PC.

## Activate license transfer file

### IF YOU USE AN ACC (LICENSE SERVER)

Upload the generated H2H file in your new ACC in the menu "Update/Attach".



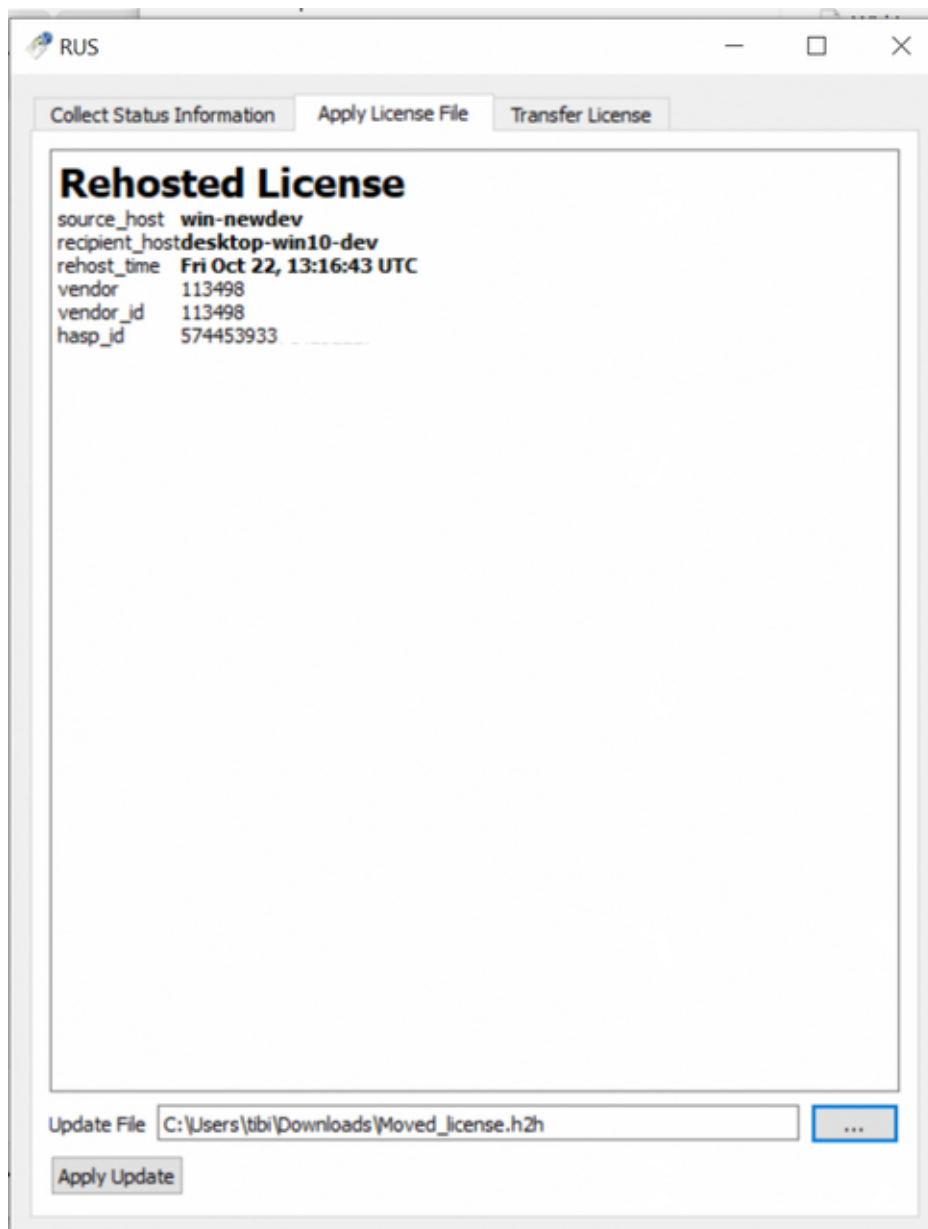
Attach the h2h transfer license file

### IF YOU DON'T USE ACC (LICENSE SERVER)

On the NEW PC in the RUS tool select **Apply License File**.

Press the [...] button to select the **.h2h** transfer license file and press **Apply License**.

The output should look similar to the screenshot.



Transfer successful

1. <https://documentation.reqteam.com/activation/#Activate-with-LicenseActivation.exe>
2. <https://documentation.reqteam.com/activation/#Activate-with-RUS-Tool>
3. <https://license.reqteam.com/ems/login.html>
4. <https://license.reqteam.com/ems/customerLogin.html>
5. <https://license.reqteam.com/ems/customerLogin.html>
6. <https://cloud.reqteam.com/downloads/theses/8.31/haspdinst.zip>
7. <https://cloud.reqteam.com/downloads/theses/8.31/haspdinst.exe>
8. <https://cloud.reqteam.com/downloads/theses/8.31/aksusbd-8.31.1.tar>
9. [https://docs.sentinel.thalesgroup.com/ldk/LDKdocs/Install/Installation%20Guide/RTE\\_using\\_Utility/haspdinst.exe%20Utility.htm](https://docs.sentinel.thalesgroup.com/ldk/LDKdocs/Install/Installation%20Guide/RTE_using_Utility/haspdinst.exe%20Utility.htm)
10. <http://localhost:1047/>
11. <https://license.reqteam.com/ems/customerLogin.html>
12. <http://localhost:1947/>
13. <https://documentation.reqteam.com/starting-reqedit/#System-Requirements>
14. <https://documentation.reqteam.com/license-detach-utility/>
15. <https://license.reqteam.com/ems/login.html>
16. <https://license.reqteam.com/ems/customerLogin.html>
17. <https://license.reqteam.com/ems/customerLogin.html>

18. <https://license.reqteam.com/ems/customerLogin.html>

---

## 2. 2022

### 2.1 February

#### Create document in REQEDIT (2022-02-14 11:12)

ReqEdit creates different **types of requirement documents**.

- New specification (.reqif)

You can create a new specification document without attachments.

- New specification with attachments (.reqifz)

You can create a new specification document with attachments, images, file attachments based on ReqIF format from default or template. This option is recommended to use, vs the simple reqif documents.

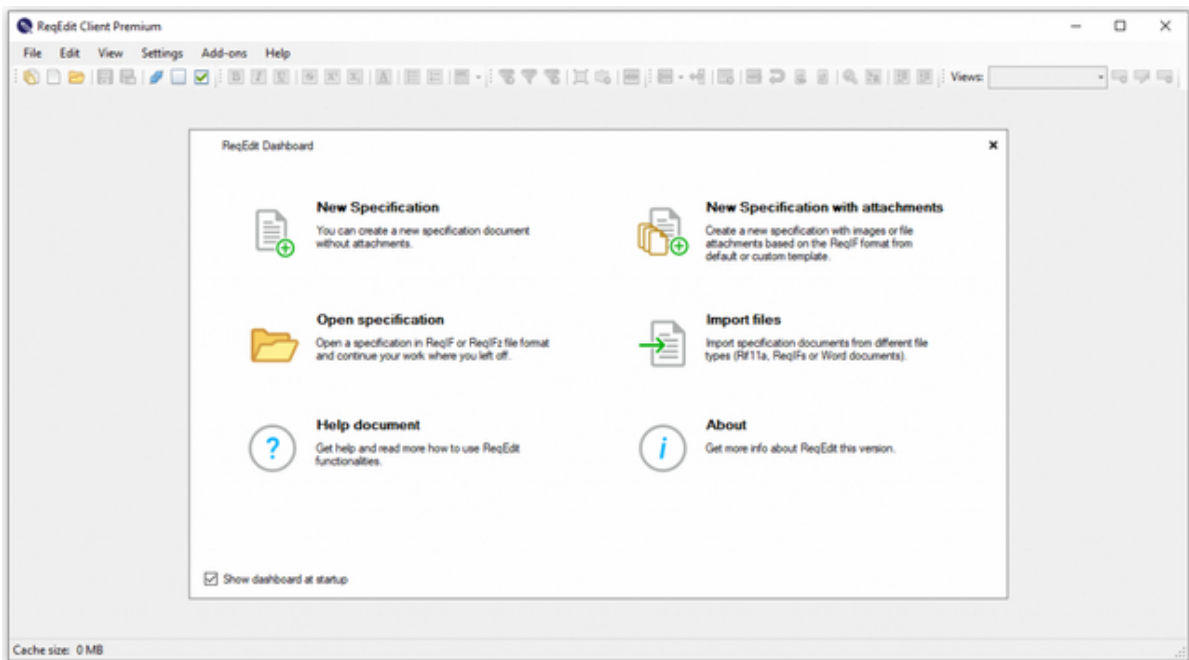
More about ReqIF formats read **[1]here**.

#### **ReqIF (.reqif) ReqIF Archive (.reqifz)**

No attachments Can have attachments

CTRL+N CTRL+SHIFT+N

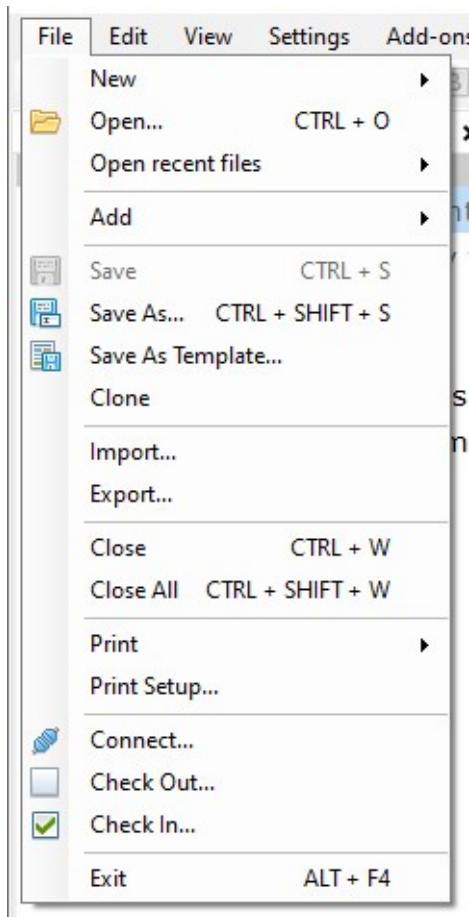
Create a new specification document



## Dashboard

Create a new specification document:

- Click on the wanted option on the Dashboard or
- Open File menu/New... and choose the option you want to use



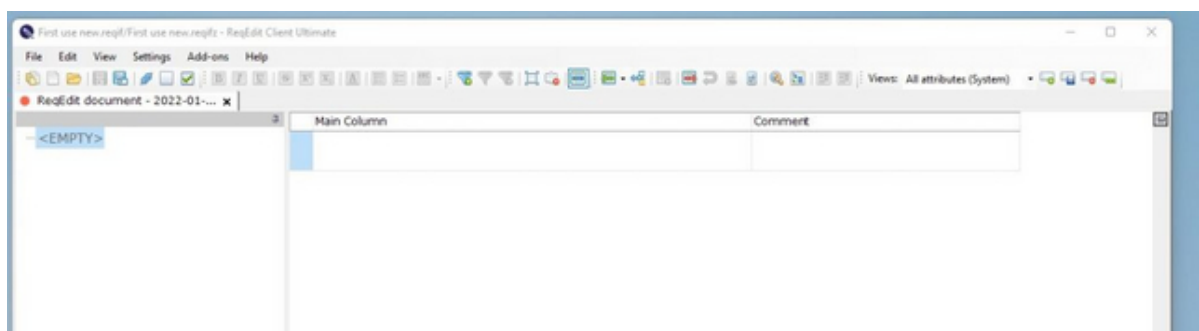
File menu

## New Archive

ReqIF Archive supports attaching external images or files to any requirement. Creating a new archive will show a window asking for a filename.

Choose default template from the Template selector pop-up window.

A new file template appears.



## New Template

An overview of the user interface description, read [\[2\]here](#).

## Adding new items

Now you can add rows, add columns (attributes) to your document.

To add rows click **File/Edit/Insert new row ...** or **Insert new child row**

To delete rows click **File/Edit/Delete row**

To add Column go to [\[3\]Settings/Document](#) or use shortcut key F8

In the Document settings table use **Attributes** tab to add new or edit or delete columns.

Document Settings

Creation tool: **ReqEdit**

Source Tool: ReqEdit

Number of documents: **1**

Conversation ID:

Documents:

Display as heading:  Display as description:  Display as text:

Attribute Types | **Attributes** | Document | Links

	Long Name	Custom Type	Data Type	Last Change	Is editable
	ReqIF.Chapter...	Text	XHTML	21.01.2022	✓
	ReqIF.Name	Text	XHTML	21.01.2022	✓
	ReqIF.Text	Text	XHTML	21.01.2022	✓
	Comment	Text	XHTML	21.01.2022	✓
	ReqEditID	Integer	INTEGER	21.01.2022	✗
	ReqEditModifi...	Date	DATE	21.01.2022	✗
	ReqEditModifi...	String	STRING	21.01.2022	✗
	ReqIF.Foreign...	Boolean	BOOLEAN	21.01.2022	✗

Description:

Default Value(s):

## Document settings

Attribute editor

Document: ReqEdit document - 2022-01-21T13\_44\_20

Attribute types: Boolean

LongName:

Description:

☐ Multivalued ☐ Read Only

Identifier:

Default value: TRUE

Referenced Attribute Type

IDENTIFIER: \_a82b6eb-1405-4927-9250-79e4c0a4604d  
LONG NAME: Boolean  
LAST CHANGED: 21.01.2022  
DESCRIPTION: TYPE: Boolean

OK Cancel

### Attribute editor

Note: You cannot edit a created attribute type after saving it.

More about attributes and attribute types read **[4]here**.

## Attachments

ReqIF Archive .reqifz files support having file attachments for objects.

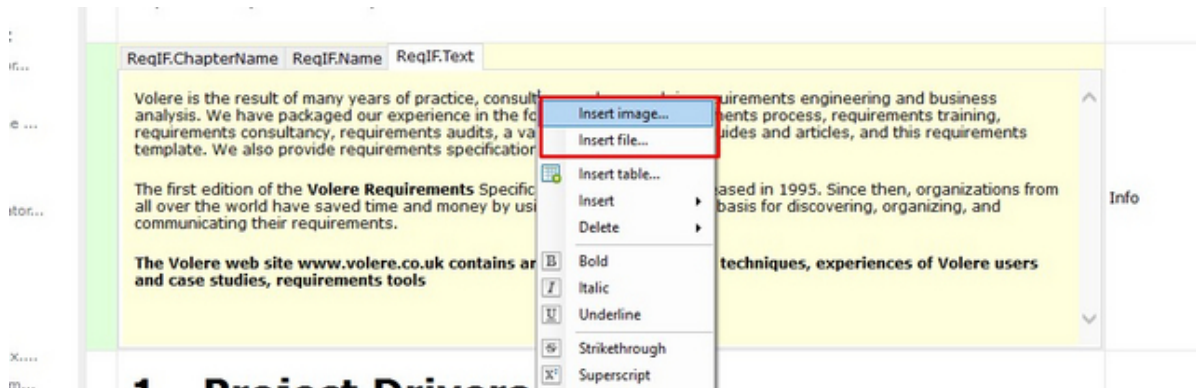
**Only XHTML attributes can have attachments inside .reqifz files**

Image attachments: png, bmp, jpg, gif, ico, wmf,

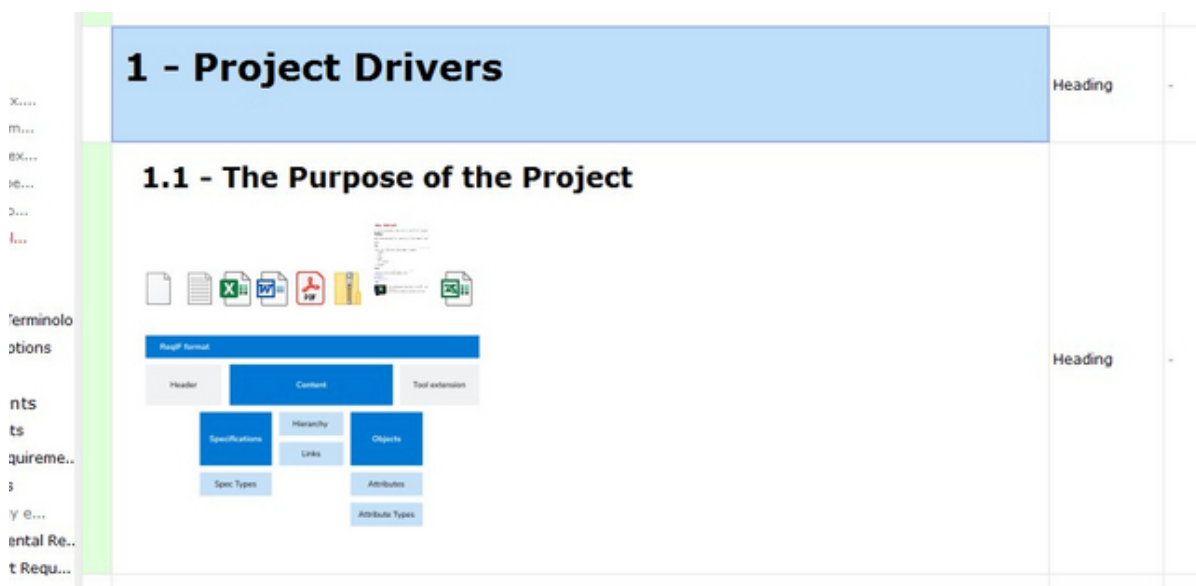
File attachments: any file type is supported: pdf, doc, docx, xls, xlsx ...

## Inserting file attachments

To add an attachment simply right click the XHTML inline editor area and select **Insert image** or **Insert file**



ReqEdit displaying context menu, highlighted is the insert image and file menu item



ReqEdit displaying attachment previews of an object, contains file icons and preview images

About editing an opened specification file read **[5]here**.

Opening existing files, read **[6]here**.

1. <https://documentation.reqteam.com/reqif-requirements-format/>
  2. <https://documentation.reqteam.com/user-interface/>
  3. <https://documentation.reqteam.com/document-settings/>
  4. <https://documentation.reqteam.com/document-settings/#Attributes>
  5. <https://documentation.reqteam.com/edit-reqif-requirement-files/>
  6. <https://documentation.reqteam.com/open-reqif-requirement-files/>
- 

## 2.2 March

### Export to MS Excel (2022-03-31 20:20)

## File types you can export to MS Excel with ReqEdit

- ReqIF 1.0.1 to ReqIF compatibility mode
- RIF 1.1 / RIF 1.1a archive format
- ReqIFz

## Use case for export to MS Excel option

Use "Excel Export" if you want use an Excel file for:

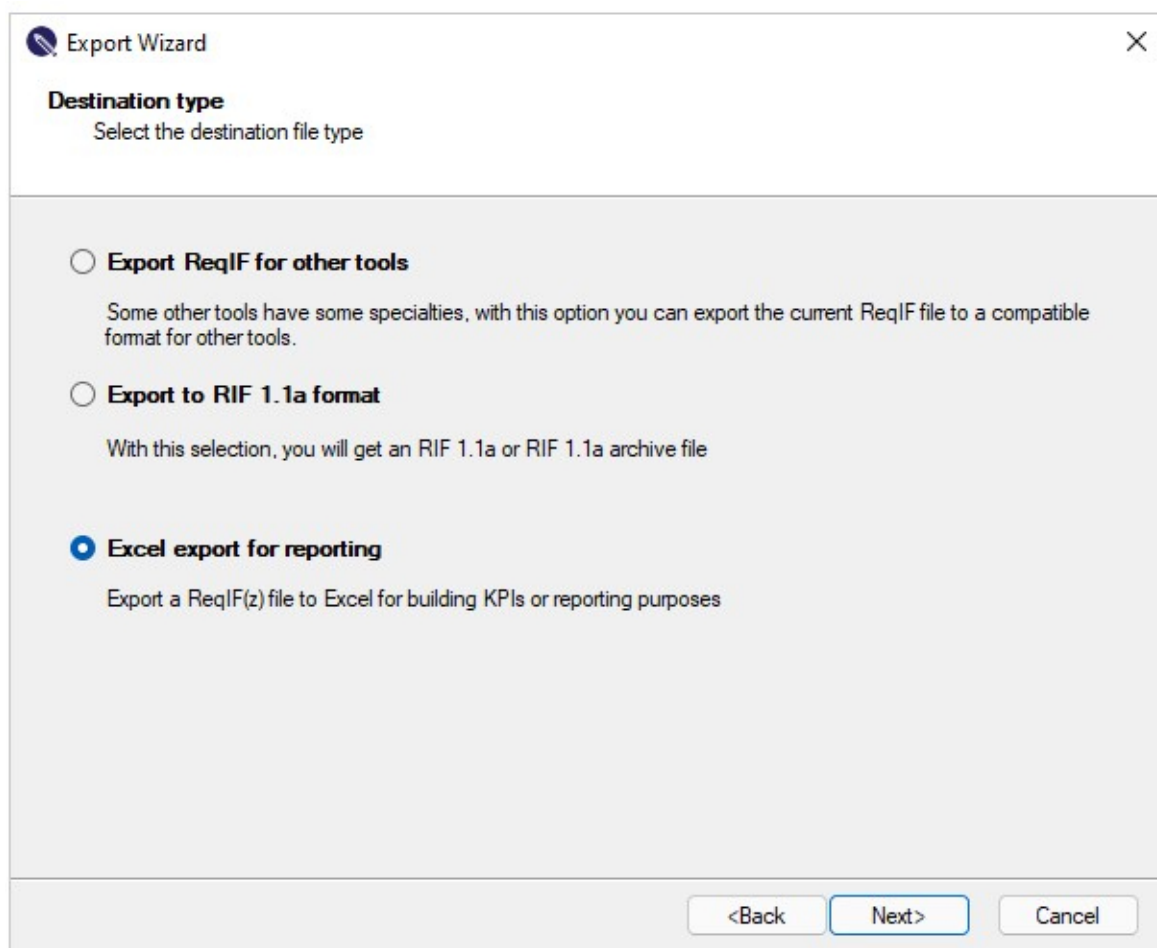
- KPI determination

- statistical analysis
- not for reimport changes to ReqIF document

Due to unique column heading ID needed for the export process, the reimported document can present differences in Attribute names. See [1]Result view

## Export to MS Excel

1. Open the document you want to export from.
2. Set the View mode you want in the **View** menu. It can be predefined or newly set. Export function will export the datas you can see on the screen by the active view mode.
3. Open **File/ Export...**



## Export wizard

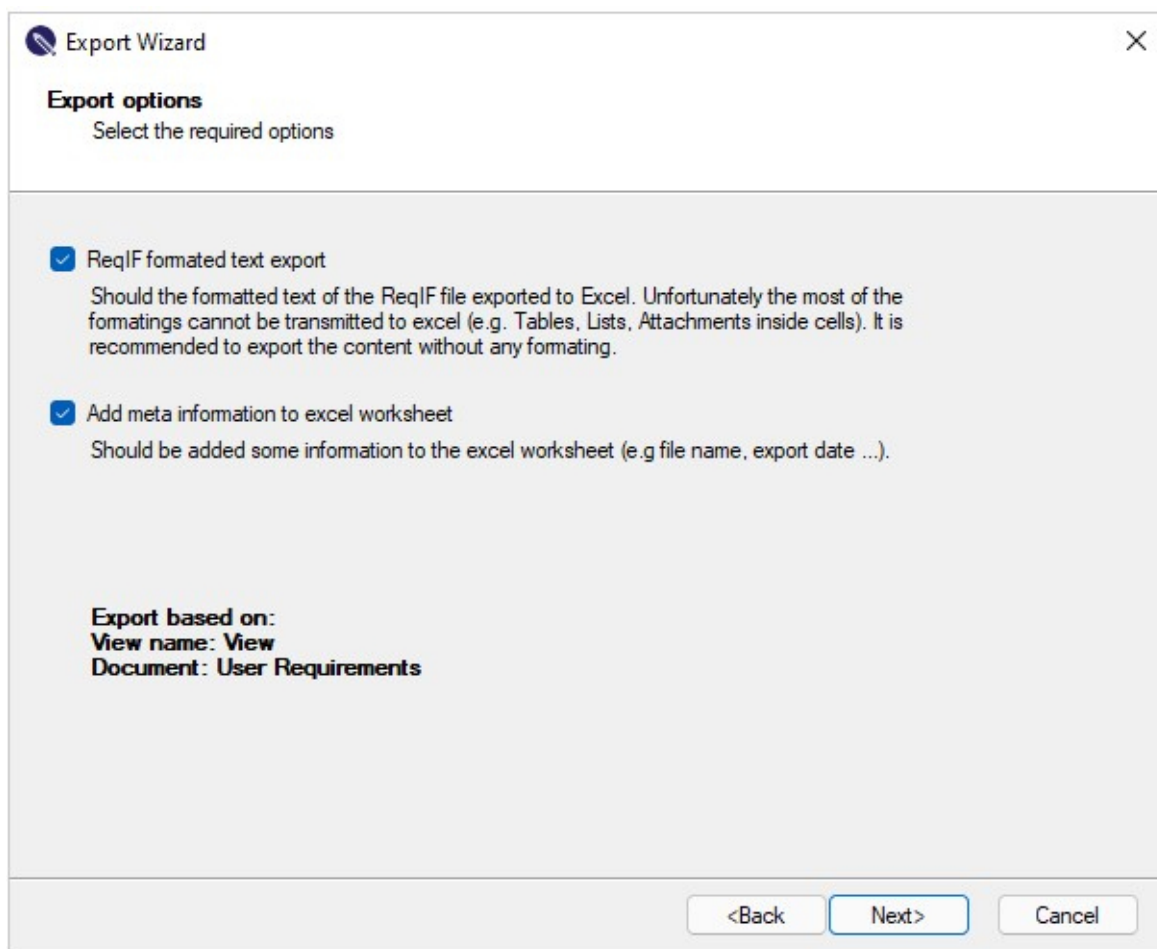
- Follow **Export Wizard**
- Choose **Excel export for reports** in the Wizard Window
- Choose name and location for excel file. The Wizard will generate automatically the ReqIF documents name and adds 'exported' as excel file name. It can be modified, if needed.

The export of the ReqIF file will be written in a Excel sheet with the name of the visible document. If the name is longer than 30 characters, it will be shortened to this maximum size supported by Excel. If the user choose an existing excel file the sheet with the exported data will be added or replaced if a sheet with the same name exists.

The message "The file XXX already exists. Do you want to replace it?" generated by the Windows file selector, can be confirmed with "Yes"; only the tab named after the document name will be overwritten entirely.

**Note:** If you want to export a file with an existing excel file name, close the file before click Start on export to Excel.

- Check the **export options** boxes (optionally):
  1. ReqIF formatted text export - Exporting data with formatting (only for text, bold, underlined, strikethrough, italic) Does not support tables, attachments, (limited support of) lists, background colour.
  2. Add meta information to excel worksheet - Exporting meta info based on the View of the document. It shows the following information in the first rows in the excel worksheet: export date, file name, document name, document ReqIF-ID, view name, user name)



The image shows a 'Export Wizard' dialog box with a title bar containing a pencil icon and a close button. The main area is titled 'Export options' with the subtitle 'Select the required options'. There are two checked options: 'ReqIF formatted text export' and 'Add meta information to excel worksheet'. Each option has a descriptive paragraph below it. At the bottom, it says 'Export based on: View name: View' and 'Document: User Requirements'. The bottom right has three buttons: '<Back', 'Next>', and 'Cancel'.

**Export Wizard**

**Export options**  
Select the required options

☒ ReqIF formatted text export  
Should the formatted text of the ReqIF file exported to Excel. Unfortunately the most of the formatings cannot be transmitted to excel (e.g. Tables, Lists, Attachments inside cells). It is recommended to export the content without any formatting.

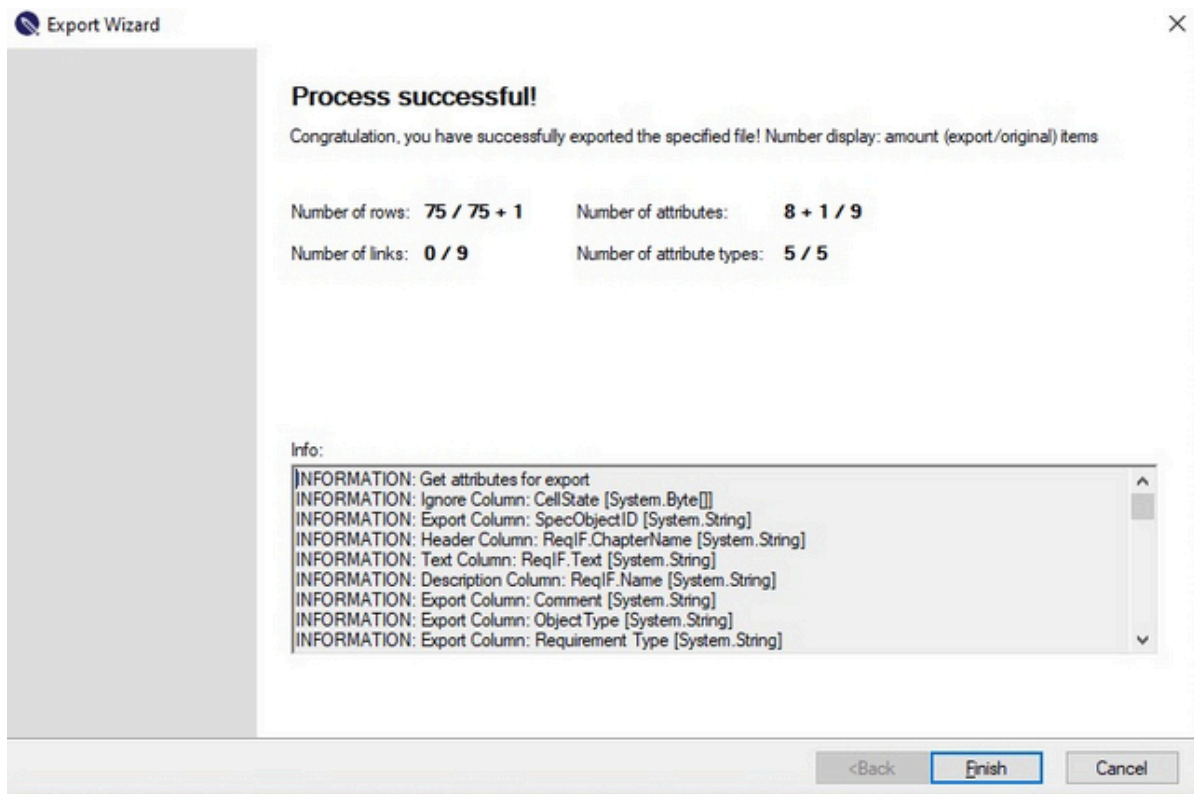
☒ Add meta information to excel worksheet  
Should be added some information to the excel worksheet (e.g file name, export date ...).

**Export based on:**  
**View name:** View  
**Document:** User Requirements

<Back   Next>   Cancel

## Export options

- Finish export. Log info window appear.
- **Open** the Excel file.



Finish export window

The numbers in the final export wizard window show the amount of hidden attributes (columns) or deleted rows in the original document.

## Result export view

If you check Add meta information to the excel worksheet checkbox in the Excel export wizard, the Excel file contains the meta datas in the first rows:

	A	B	C	D
1	Export date:	3/17/2022 15:45		
2	File name:	S:\Boti\Kaffeeautomat_2.reqifz		
3	Document name:	Kaffeeautomat_2 - User Requirements		
4	Document ReqIF-ID:	1a8ffb8-eca2-423c-b266-26e94aea7398		
5	View name:	View		
6	User name:	IBL\Bryan		
7				
8	RowNr	Hierarchy ID	Object ReqIF ID	ReqIF.ChapterName
9		1 - #1	_33591b0-a6d5-4f2a-8fb9-d47474a8b15e	ReqIF.Text
				based on VolereRequirements

Resulted file view with meta datas

The first 3 columns of the created Excel file contain, independent of the selected View

mode:

Row Nr Each row is numbered conform to the source specification document.

Hierarchy ID Shows the entry level of the object (text) in the source specification document. The number shows the chapter number it belongs and after the hash sign ( #) the entry position in the folder.

ObjectReqIF ID Shows the ReqIF-ID of each object from the source specification document.

New columns in the exported Excel file

These column headings are **reseved for the Excel export**. They are important to identify the specifications from the Specification document. If these **column names are defined as attributes inside the ReqIF** document, **the attribute will be reanamed to "ReqEdit.<<attributename>>"**. Ex: RowNr -> ReqEdit.RowNr

The name of the tab in the created Excel file are the first 30 characters of the document name.

If you reexport a document to existing Excel file, the final file saves the new version of ReqIF file in the sheet which has the same name. The other sheets /tabs remain the same.

### Display of formatted text:

Some elements can be displayed in Excel in a certain mode due to technical limitations:

Formating Display Description

Multi Enumeration multi #1

multi #2

By default any of the multi valued enumeration values will be displayed separated by a new line.

Unordered list - entry #1

- entry #2 Any of the unordered lists will be displayed as new line separated entries with an starting dash "-" character for each of the list entries

Ordered list 1. entry #1

2. entry #2 Any of the ordered list entries will be displayed with a numeric value and followed by a dot

Table [col1][col2]

[col1][col2] Each table column inside of ReqIF-table row will be framed with square bracket signs

("[ column value ]").

Attachments {"link":"image.png", "type":"image/png" } Textual information about the linked file and mime type

Attachments with alt text {"link":"image.png", "type":"image/png" }Alternative text {"endlink" } Textual information about the linked file and mime type

Limitations in formatting to Excel

**Note: Roundtrip Excel-ReqIF is not supported! (You can reimport this Excel file to a ReqIF file, but you will lose information contained in the original ReqIF).**

1. <https://documentation.reqteam.com/?p=2386#Result-export-view>

---

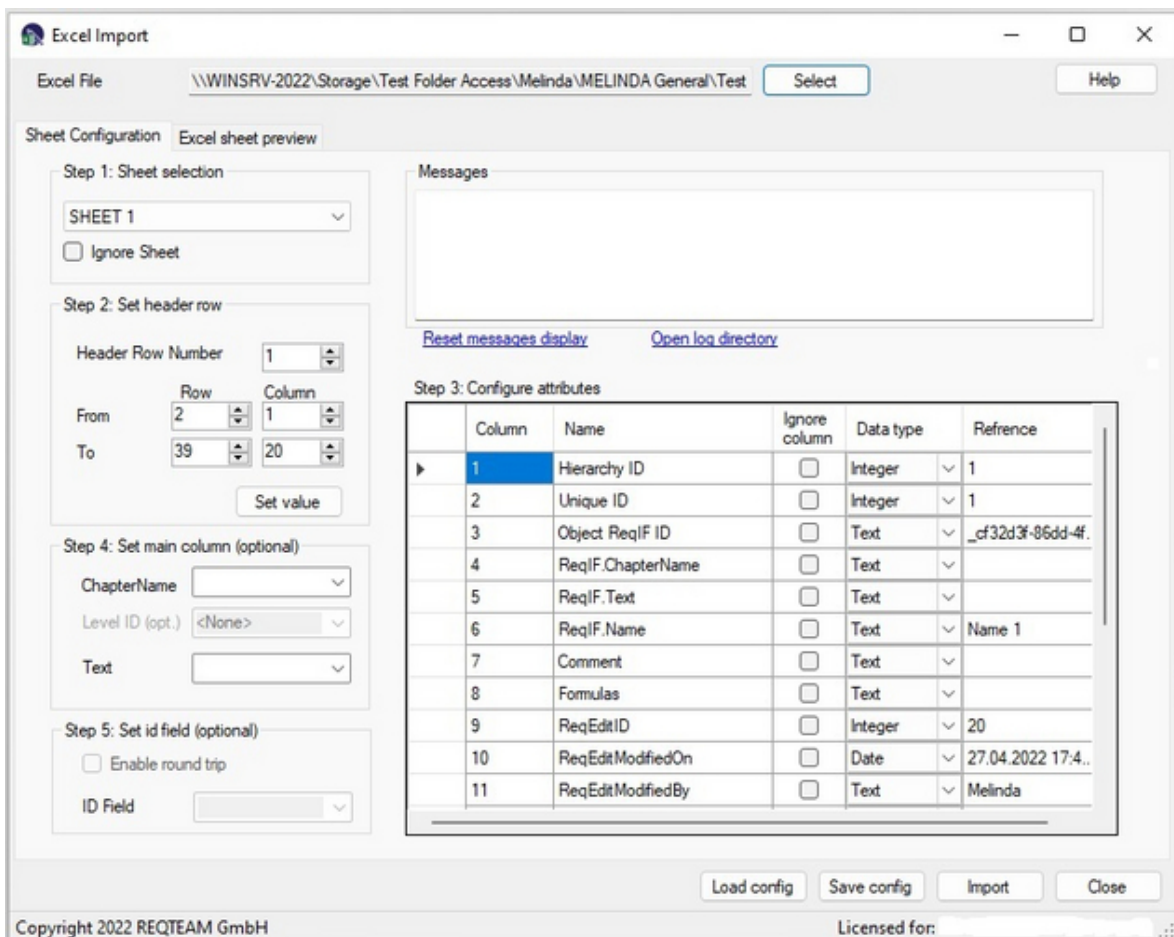
## 2.3 April

**Excel importer add-on (2022-04-11 09:42)**

Convert a single MS Excel file with **XLSX** extension to a ReqIF Archive file (.xlsx to .reqifz)

## Usage

Start the Excel Importer add-on by selecting **Add-ons > Excel add-on**.



ReqEdit Excel importer add-on

## Sheet Configuration tab

### Step 1. **Sheet selection**

display the specific sheet to configure, check Ignore Sheet to skip conversion

### Step 2. **Set header row**

select a header row that represent the attributes (table header)

### **Set import data range**

Set the first and last cell coordinate of the converted worksheet section

- Row is row in the excel sheet (1-1048576)
- Column represents the number of column in the excel spreadsheet (A=1, B=2... XFD=16384)

Excel Import

Excel File: C:\Users\Melinda\Desktop\wegyes excoles\Excel test file for import 15.35.xlsx [Select] [Help]

Sheet Configuration | Excel sheet preview

Step 1: Sheet selection

Sheet1

☐ Ignore Sheet

Step 2: Set header row

Header Row Number: 1

From: Row 2, Column 1

To: 39, 20

[Set value]

Step 4: Set main column (optional)

ChapterName: ReqIF.ChapterName

Level ID (opt.): <None>

Text: Hierarchy ID, Unique ID, ReqEditID

Step 5: Set id field (optional)

☐ Enable round trip

ID Field:

Messages

[Reset messages display](#) [Open log directory](#)

Step 3: Configure attributes

	Column	Name	Ignore column	Data type	Reference
▶	1	Hierarchy ID	<input type="checkbox"/>	Integer	1
	2	Unique ID	<input type="checkbox"/>	Integer	1
	3	Object ReqIF ID	<input type="checkbox"/>	Text	_cf32d3f-86dd-4f.
	4	ReqIF.ChapterName	<input type="checkbox"/>	Text	
	5	ReqIF.Text	<input type="checkbox"/>	Text	
	6	ReqIF.Name	<input type="checkbox"/>	Text	Name 1
	7	Comment	<input type="checkbox"/>	Text	
	8	Formulas	<input type="checkbox"/>	Text	
	9	ReqEditID	<input type="checkbox"/>	Integer	20
	10	ReqEditModifiedOn	<input type="checkbox"/>	Date	27.04.2022 17:4..
	11	ReqEditModifiedBy	<input type="checkbox"/>	Text	Melinda

[Load config] [Save config] [Import] [Close]

### Step 3. **Configure Attributes** (center)

**Column** represents the number of column in the excel spreadsheet (A=1, B=2... XFD=16384)

**Name** represent the Header Row Number from the Set header row section,

To **ignore a column** from import check the box near

**Data type.** Tool will try to guess the data types automatically based on the data type of the first row of the import range.

- **Boolean** – true/false type values

- **Integer** – whole numbers
- **Real** – decimal numbers
- **Date** – date format
- **String** – single line text, no formatting
- **Text** – multi line text with formatting
- **Enumeration** – values can be one or more of a fixed set of values in all the rows in a sheet. Single value if no separator is found. Multi value if separator is found [ , ; newline ]. **The conversion will combine all values found in all the rows within a single sheet so it can be memory intensive if overused**

**Note: if the conversion is taking long use Integer ( instead of Real ) and String (instead of Text types)**

For date type it is possible to define a default date, if date is not set in the Excel cell. To set the Default date please edit "ExcelImport.exe.config" in AddOns/Excel folder. Set the config value "DefaultDate" to the date you want (format YYYY-MM-DD) and set the EnableDefaultDate to "True".

**Reference** Shows the first data from the table

Step 4. **Set main column**

Excel Import

Excel File: C:\Users\Melinda\Desktop\vegyes excoles\Excel test file for import 15.35.xlsx

Sheet Configuration | Excel sheet preview

Step 1: Sheet selection

Sheet1

☐ Ignore Sheet

Step 2: Set header row

Header Row Number: 1

From: Row 2, Column 1

To: Row 39, Column 20

Set value

Step 4: Set main column (optional)

ChapterName: ReqIF.ChapterName

Level ID (opt.): Text

Text: <None>  
Hierarchy ID  
Unique ID  
ReqEditID

Step 5: Set id field (optional)

☐ Enable round trip

ID Field:

Messages

[Reset messages display](#) [Open log directory](#)

Step 3: Configure attributes

	Column	Name	Ignore column	Data type	Reference
▶	1	Hierarchy ID	<input type="checkbox"/>	<span style="border: 1px solid red;">Integer</span>	1
	2	Unique ID	<input type="checkbox"/>	<span style="border: 1px solid red;">Integer</span>	1
	3	Object ReqIF ID	<input type="checkbox"/>	Text	_cf32d3f-86dd-4f.
	4	ReqIF.ChapterName	<input type="checkbox"/>	Text	
	5	ReqIF.Text	<input type="checkbox"/>	Text	
	6	ReqIF.Name	<input type="checkbox"/>	Text	Name 1
	7	Comment	<input type="checkbox"/>	Text	
	8	Formulas	<input type="checkbox"/>	Text	
	9	ReqEditID	<input type="checkbox"/>	<span style="border: 1px solid red;">Integer</span>	20
	10	ReqEditModifiedOn	<input type="checkbox"/>	Date	27.04.2022 17:4..
	11	ReqEditModifiedBy	<input type="checkbox"/>	Text	Melinda

Load config Save config Import Close

Set the type of ReqIF attribute of the imported excel data in the main column

- ReqIF.ChapterName
- Level ID
- ReqIF.Text

Step 5. **Set ID field**

Excel Import

Excel File: \\WINSRV-2022\Storage\Test Folder Access\Melinda\MELINDA General\Test

Sheet Configuration | Excel sheet preview

Step 1: Sheet selection

SHEET 1

☐ Ignore Sheet

Step 2: Set header row

Header Row Number: 1

From: Row 2, Column 1

To: Row 39, Column 20

Set value

Step 4: Set main column (optional)

ChapterName:

Level ID (opt.): <None>

Text:

Step 5: Set id field (optional)

☒ Enable round trip

ID Field:

Messages

16:33:11 - Roundtrip is enabled: True  
16:33:08 - Configuration saved to \\WINSRV-2022\Storage\Test Folder Access\Melinda\MELINDA General\Test folder Excel import\Config\_Excel test file for import 25.07.xml

[Reset messages display](#) [Open log directory](#)

Step 3: Configure attributes

Column	Name	Ignore column	Data type	Reference
1	Hierarchy ID	<input type="checkbox"/>	Integer	1
2	Unique ID	<input type="checkbox"/>	Integer	1
3	Object ReqIF ID	<input type="checkbox"/>	Text	_cf32d3f-86dd-4f.
4	ReqIF.ChapterName	<input type="checkbox"/>	Text	
5	ReqIF.Text	<input type="checkbox"/>	Text	
6	ReqIF.Name	<input type="checkbox"/>	Text	Name 1
7	Comment	<input type="checkbox"/>	Text	
8	Formulas	<input type="checkbox"/>	Text	
9	ReqEditID	<input type="checkbox"/>	Integer	20
10	ReqEditModifiedOn	<input type="checkbox"/>	Date	27.04.2022 17:4..
11	ReqEditModifiedBy	<input type="checkbox"/>	Text	Melinda

Load config **Save config** Import Close

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To enable round trip, Save first config file

**To enable Excel - ReqIF round trip**, use **Save config** and save the config file on your computer.

To reimport an Excel document you click on **Load config** with the saved Config file from the previously saved.

You must select an ID field from the Excel file, if the section is active. The data type of ID Field must be Integer.

**Note: The ID cell must have unique value on each excel workbook, to be possible automatically identification of the specific data row.**

**Details on the roundtrip:** the activation of the Roundtrip configuration forces the application to use the stored ReqIF-IDs in the configuration file during the reimport of a "known" Excel file. So the resulting ReqIF file will have identical IDs for all attributes and data rows. ReqEdit ReqIF compare will be possible this way and also the import in an external RE tool will update existing content instead of recreating it.

Not activating this optional functionality, the new ReqIF file will be generated with new randomly generated IDs.

## Configuration reuse

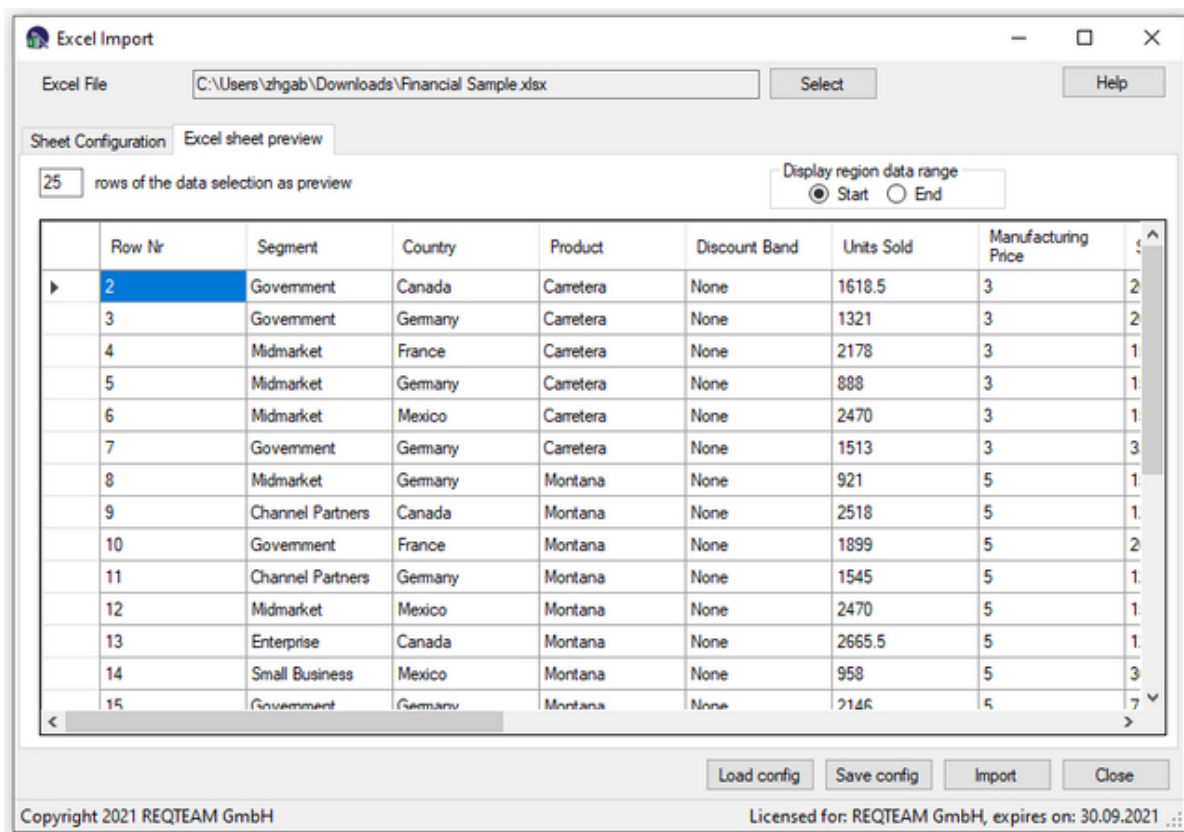
The tool lets the user save file conversion configurations and reuse them later. This is done with the **SAVE / LOAD CONFIG** buttons.

## Preview

Preview the data range of each sheet with the configured header row by pressing the **EXCEL SHEET PREVIEW** tab.

### Best practice

Use the preview to check import settings periodically, the list can be adjusted to show the start or the end of the range and also the number of the preview rows.



ReqEdit Excel add-on preview tab

## Importing Excel to ReqIF

After the excel file is configured press IMPORT to start the conversion.

The tool will generate a reqifz file near the source.xlsx file. All actions are logged.

## Output files

Each conversion will overwrite any previous REQIFZ files in the original directory

All generated output is REQIFZ archive format and will be saved near the original document.

**Important Note:** please check the content of the imported ReqIF file against your original Excel! Because of the Excel format we cannot guarantee a loss free import of all data.

## Logging

All conversions are logged into the application directory **/logs** folder. The log files are splitted into 10mb files and rotated when needed.

The logging uses the log4net library. Experienced users can configure the file log4net.config to suit the logging needs. Documentation log4net: [1]<https://logging.apache.org/log4net/release/manual/introduction.html>

## Limitations

Only the XLSX format is supported

Additional content will be discarded (images, charts or any other floating elements)

Marcos are not processed

Pivot tables are not supported

Some formulas are not supported (specially formulas regarding to other cell or table references or named labels)

Merged cells will be converted to the first cell the merge starts horizontally or vertically

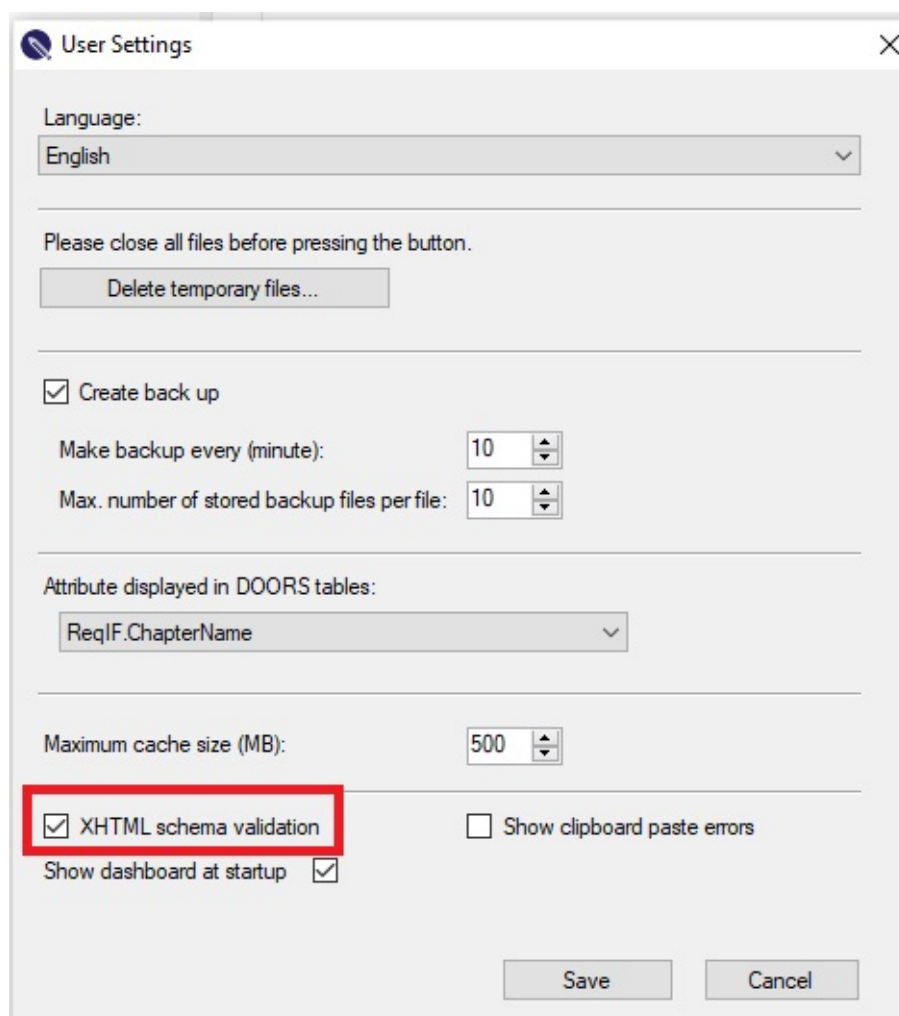
1. <https://logging.apache.org/log4net/release/manual/introduction.html>

## 2.4 June

### Merge / Compare Addon (2022-06-25 11:42)

Tool for comparing and merging ReqIF/ReqIFz files. Can be used to compare **two versions of the same file** or merge attributes from one specification to another.

*Note:* the Compare / Merge tool synchronize at startup the settings of ReqEdit about the HTML validation. To set the HTML Validation status in ReqEdit in the Settings/User menu. After set the value to the desired, please restart the Compare / Merge tool to get the settings synchronized.



XHTML validation in Settings/User menu in ReqEdit.

The tool works in two modes:

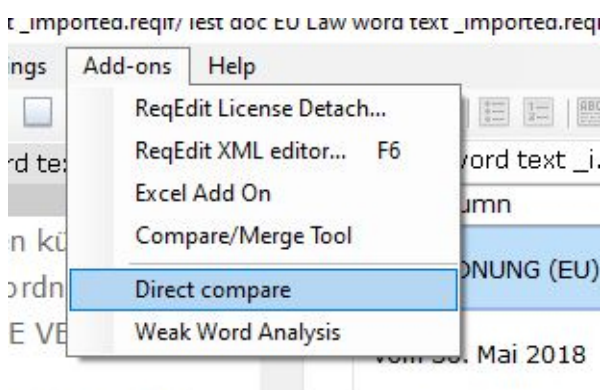
- **Direct Compare mode** Users can automatically jump to the source of the compared objects

- **Standalone mode**

## Compare ReqIF files

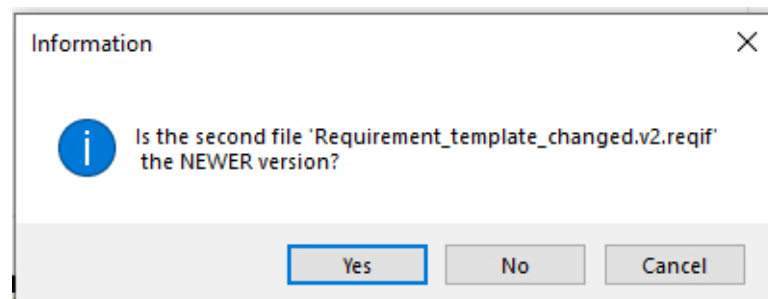
The easiest way to compare two documents is to use the Direct Compare mode, follow the steps described below.

Open the two ReqIF files for comparison, select one of the documents, Click **Add-ons > Direct Compare**



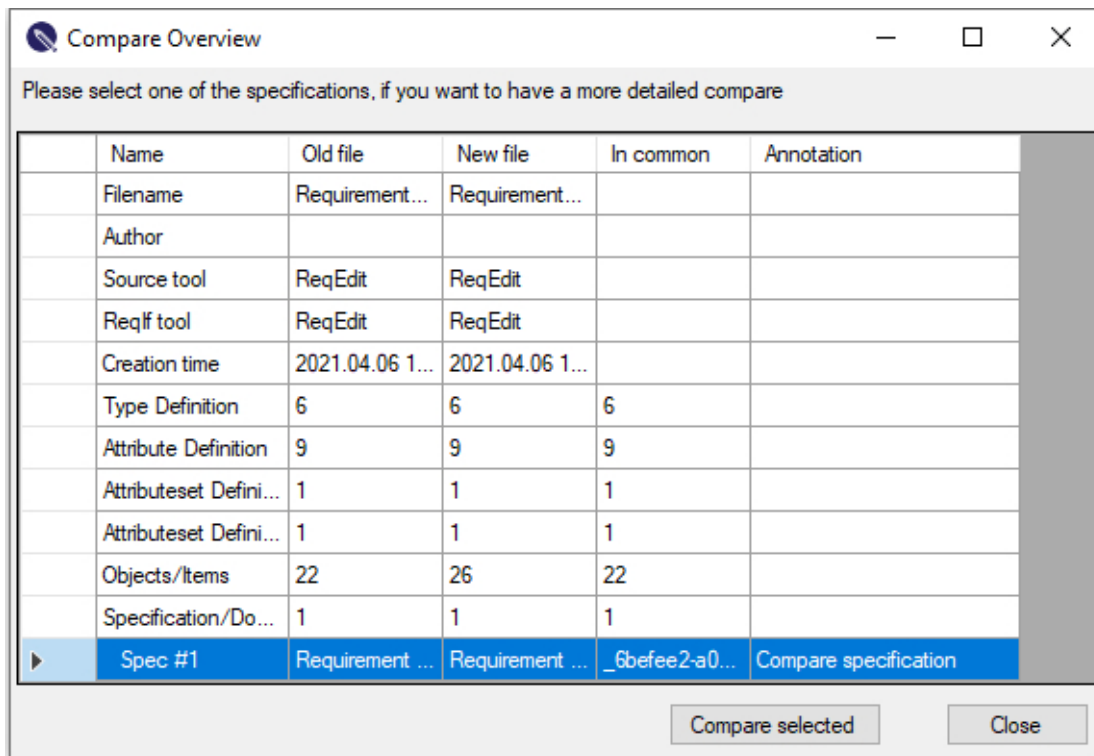
In the ReqEdit Add-ons, highlighted is the Direct Compare tool

A question window will let the user choose the pair of the document for second file as NEW or OLD, Press **YES** or **No** to configure the comparison members



ReqEdit Compare Add-on question popup

Compare overview window will show the compare statistics, then press **Compare selected**

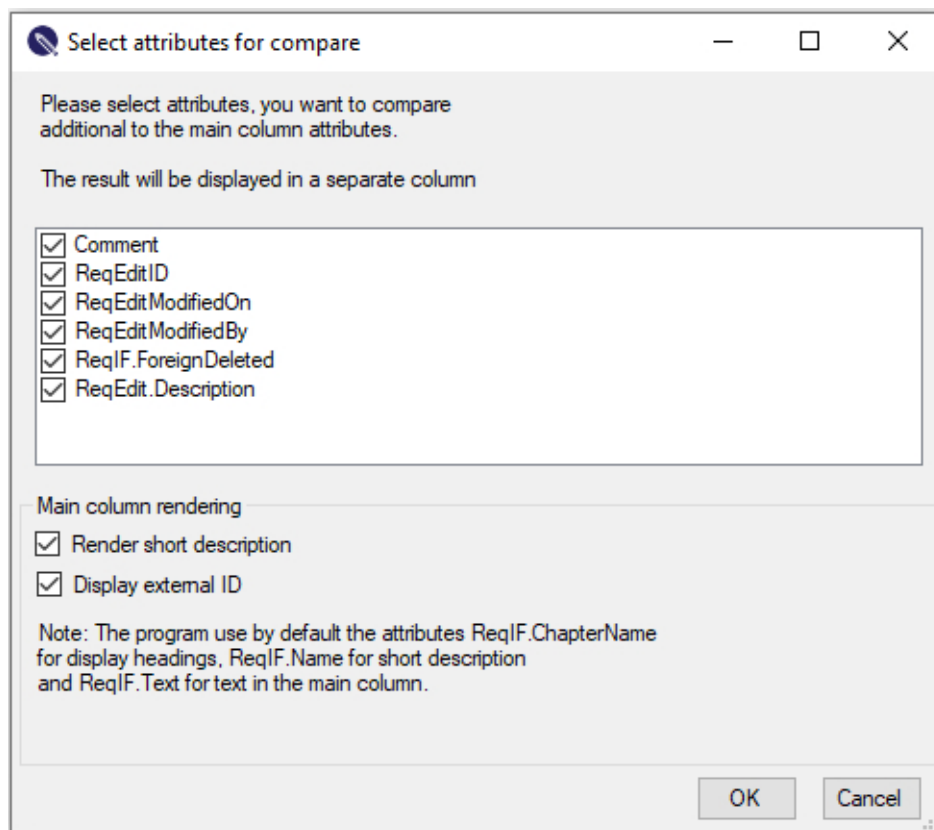


ReqEdit Compare Add-on overview window

A new window will let the user select additional attributes for quick comparison, and then press **OK**

**NOTE:** main attributes are completely compared all the time, as the footer note displays

**NOTE:** the additional attributes are displayed in a single column as a text message



ReqEdit Compare Add-on displaying additional attributes list to include in the comparison result

Display logic for additional attributes:

- **Html attributes** will be compared as HTML but displayed as a text and limited to first 50 characters
- Strings will be limited to 50 first characters
- Dates will be converted to German date format
- Boolean values will be displayed as text
- Enumerations will be displayed as a string

### Render Short Description

Will compare and display the ReqIF.Name attribute (in case of DNG export this will be a copy of ReqIF.Text, and should be excluded from comparison for nicer overview)

## Display External ID

will show ReqIF.ForeignID attribute as a separate column

## The Comparison Window

Displays the result of the comparison in a two sided window.

Right clicking any object the ReqIF.ID and External.ID (ReqIF.ForeignID) can be copied into the clipboard

Object Number	External ID	Main Column	Other attributes	Status
1		<b>Description</b>		
1.1		<b>Stakeholders</b>		
1.2		<b>Project description</b>		
1.2.1		<b>Service need</b>		
1.2.2		<b>Project purpose &amp; Scope</b>		
1.2.3		<b>Technical challenges/issues</b>		
1.2.4		<b>Existing systems</b>	ReqEditModifiedOn: 06.04.2021 18:24	Ref...
2		<b>Hardware requirements</b>		
3		<b>Software requirements</b>		
4		<b>Technical requirements</b>		
4.1		<b>Functional requirements</b>		
4.1.1		SubSystem A/Product Part A		
4.1.2		SubSystem B/Product Part B		
4.1.3		<b>Interfaces</b>		
4.1.4		Interface to System Ext-X		
4.1.5		Functional legal requirements		
4.2		<b>Non functional requirements</b>		
4.2.1		Design/Architecture		
4.2.2		Usability	ReqEditModifiedOn: 06.04.2021 18:17	Ref...
4.2.3		Performance requirements		Ref...
4.2.4		Support/Training		Ref...
4.2.5		Non functional legal requirements		

ReqEdit Comparison Add-on displaying the Comparison Window, with External ID and additional attributes

## Column description

**ObjectNumber** Hierarchical numbering by Headers similar to chapter structure, optional # character shows text objects under the given chapter, the background color suggests the type of change

**External ID** Shows the contents of the ReqIF.ForeignID attribute

**Main Column** Displays the content of the objects with changes, green is the new content (right side), red on is the removed or changed content (left side)

**Other attributes** Displays the concatenated additional attribute changes with green and changed with red (on the left)

**Status** Displays the status description: new, changed, moved from source, moved and changed, deleted (only left), referenced

## Highlight colors

### Structural changes

**GREEN** NEW

**BLUE** MOVED

**ORANGE** CHANGED, CHANGED & MOVED

**RED** DELETED

Referenced, is the source of the moved / changed objects

### Content changes

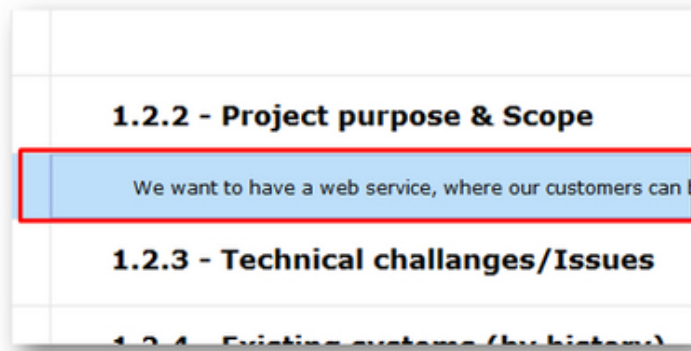
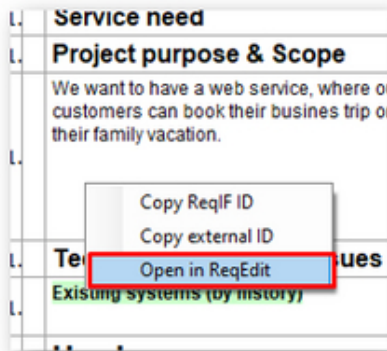
**GREEN** New content

**RED** Removed content

## Display unchanged rows

By default all content is displayed, to show only the changes uncheck the **[Display unchanged rows]** checkbox at the top

## Jump to source



Jump to source by right-clicking an object in the comparison window, will select the object in the source document

## HTML Report

Users can save the result of the comparison as a HTML report. Pressing the **Open results in browser** at the bottom will save the file and open the default browser.

**Specification comparison**

Compare specification Requirement document -> Requirement document

Information about the compare  
Date: 08.06.2021 17:28:25  
Main column attributes: ReqID ChapterName ReqID Name ReqID Text  
Attributes: Comment, ReqID ID, ReqID ModifiedOn, ReqID ModifiedBy, ReqID ForeignDeleted, ReqID Description  
Optional Disclaimer text

Old file: Requirement\_template.req

ObjectNumber	ExternalID	MainColumn	Other	Status
1		Description		
1.1		Stakeholders		
1.2		Project description		
1.2.1		Service need		
1.2.2		Project purpose & Scope		
1.2.3		Technical challenges/Issues		
1.2.4		Existing systems	ReqID ModifiedOn: 08.04.2021 18:24:03	Referenced
2		Hardware requirements		
2		Software requirements		
3		Technical requirements		

New file: Requirement\_template\_changed.v2.req

ObjectNumber	ExternalID	MainColumn	Other	Status
1		Description		Unchanged
1.1		The travel portal should offer customers an easy booking possibility for their journey.	ReqID: 24 ReqID ModifiedOn: 08.04.2021 18:40:58 ReqID ModifiedBy: 881 ReqID ForeignDeleted: False	New
1.2		Stakeholders		Unchanged
1.2.1		Project description		Unchanged
1.2.2		Service need		Unchanged
1.2.3		Project purpose & Scope		Unchanged
1.2.4		We want to have a web service, where our customers can book their business trip or their family vacation.	ReqID: 23 ReqID ModifiedOn: 08.04.2021 18:40:05 ReqID ModifiedBy: 881 ReqID ForeignDeleted: False	New
1.2.5		Technical challenges/Issues		Unchanged
1.2.6		Existing systems (by history)	ReqID ModifiedOn: 04.05.2021 09:22:42	Changed
2		Hardware requirements		Unchanged

Legend: NEW (4), CHANGED (2), DELETED (0), MOVED (2)

☐ Show only unread ☐ Show only changes

ReqEdit Compare tool generated HTML report

The HTML report is a scripted web-page with couple functions:

## Highlighting objects/rows

Users clicking any row in the report will be highlighted and if possible, the pair will be shown and also highlighted

Clicking the ObjectNumber or the row to jump to corresponding object pair. Highlighting is similar to the comparison window.

4.1.2	Sub-System B/Product Part B		4.1.2	Sub-System B/Product Part B	Unchanged
4.1.3	Interfaces		4.1.3	Interfaces	Unchanged
4.1.3.1	Interface to System Ext-X		4.1.3.1	Interface to System Ext-X	Unchanged
4.1.4	Functional legal requirements		4.1.4	Functional legal requirements	Unchanged
4.2	Non functional				

## Filter change type

The number of the different types of change are shown at the bottom of the page and can be toggled to be visible or hidden

Legend: ■ NEW (4), ■ CHANGED (2), ■ DELETED (0), ■ MOVED (2)

## Show only changes

Show only the rows that are changed, moved, new or deleted, including the reference to changes.

☒ Show only changes

## Mark as read

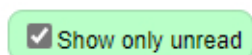
Users can track the progress of the validation of the changes by marking each row as read with the checkbox.

Read	<input checked="" type="checkbox"/>	<a href="#">4.2.2</a>	<input checked="" type="checkbox"/>	Performance requirements	
Read	<input checked="" type="checkbox"/>	<a href="#">4.2.3</a>	<input checked="" type="checkbox"/>	Support/Training	
Read	<input checked="" type="checkbox"/>	<a href="#">4.2.4</a>	<input checked="" type="checkbox"/>	Usability	ReqEdit! 03.05.20
	<input type="checkbox"/>	<a href="#">4.2.5</a>	<input type="checkbox"/>	Non functional legal requirements	

**NOTE:** this feature uses browser internal WebStorage mechanism, all markers are saved to localStorage. All modern browsers have this feature but can be limited by security policies.

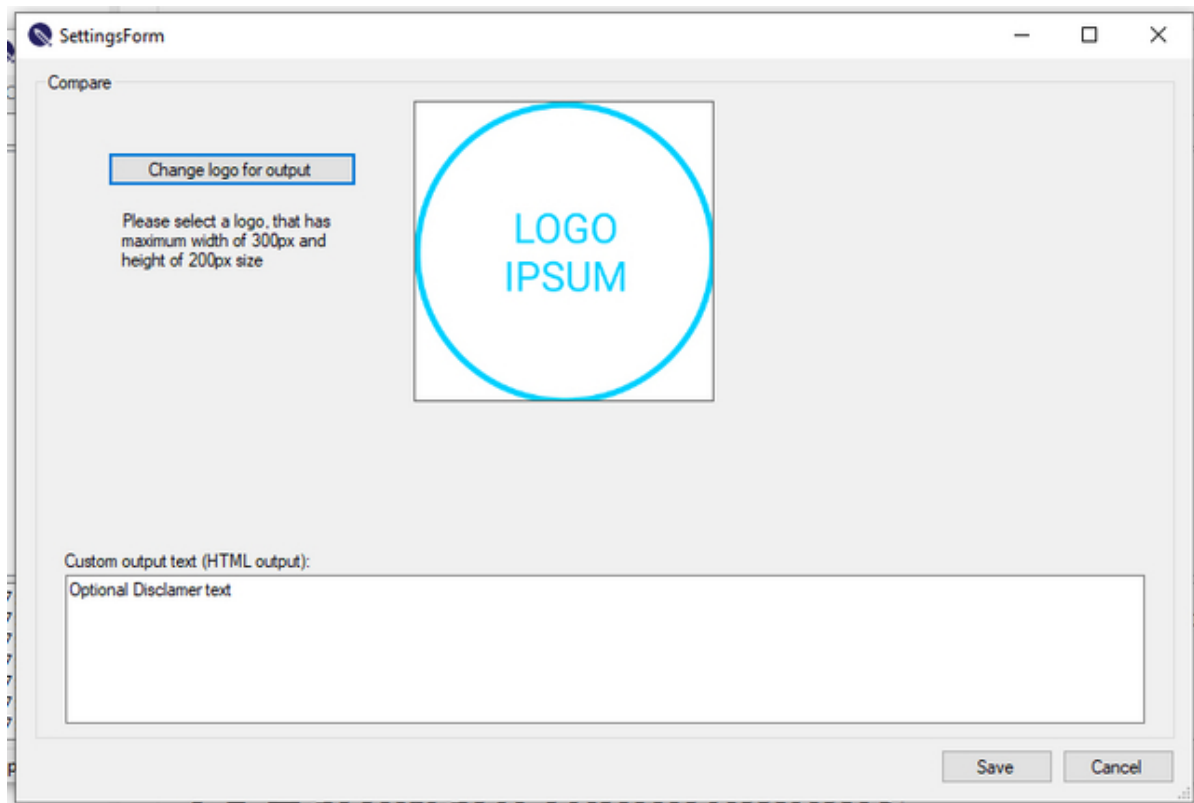
## Show only unread

The button will toggle the display of only the rows which are not yet marked as read



## Settings

Customize an additional logo and optional HTML content to include in the HTML report, open the Administration > Settings menu.



Compare Add-on settings window

NOTE: The logo image can only be replaced with another one, there must always be a logo

## Print to PDF

HTML report can be saved as PDF by printing the result to a PDF document within the browser. To get a better viewing experience set the pdf size to A3 landscape or adjust the print scaling and enable background colors.

## Notices

In IE11 or other older browsers if "Mark as read" cannot be used it will be hidden. An ActiveX script execution popup will ask to run the scripts inside the html report. Choose Allow Blocked Content to enable the features.

Mark as read is saved inside the browser, moving the html report will not affect the read markings.

Tested on:

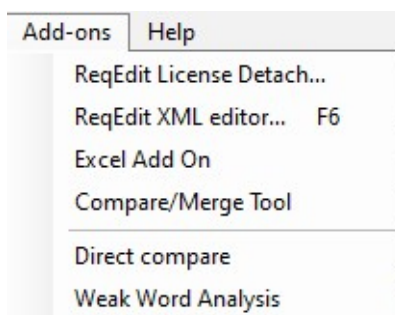
- Edge Version 91.0.864.41 (Official build) (64-bit)
- Chrome Version 91.0.4472.77 (Official Build) (64-bit)

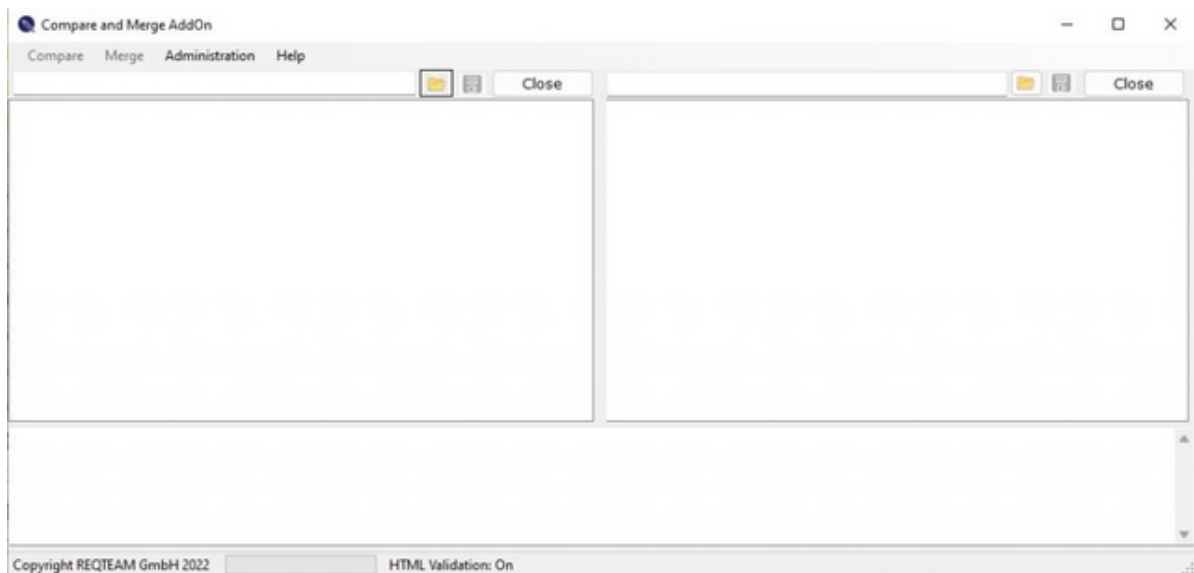
Mark as read cannot be exported or transferred, its indented to be used only on one PC.

## Standalone mode

Comparison between two unopened files in ReqEdit

**Note: Opened files will be locked, other applications (ex: ReqEdit) will not be able to open the files until closed**





### ReqEdit compare add-on in standalone mode

Open the old ReqIF file on the left and the new on the right side and then press Compare in the top menu.

Follow the wizard to configure comparison options, then press Compare selected documents to display the result.

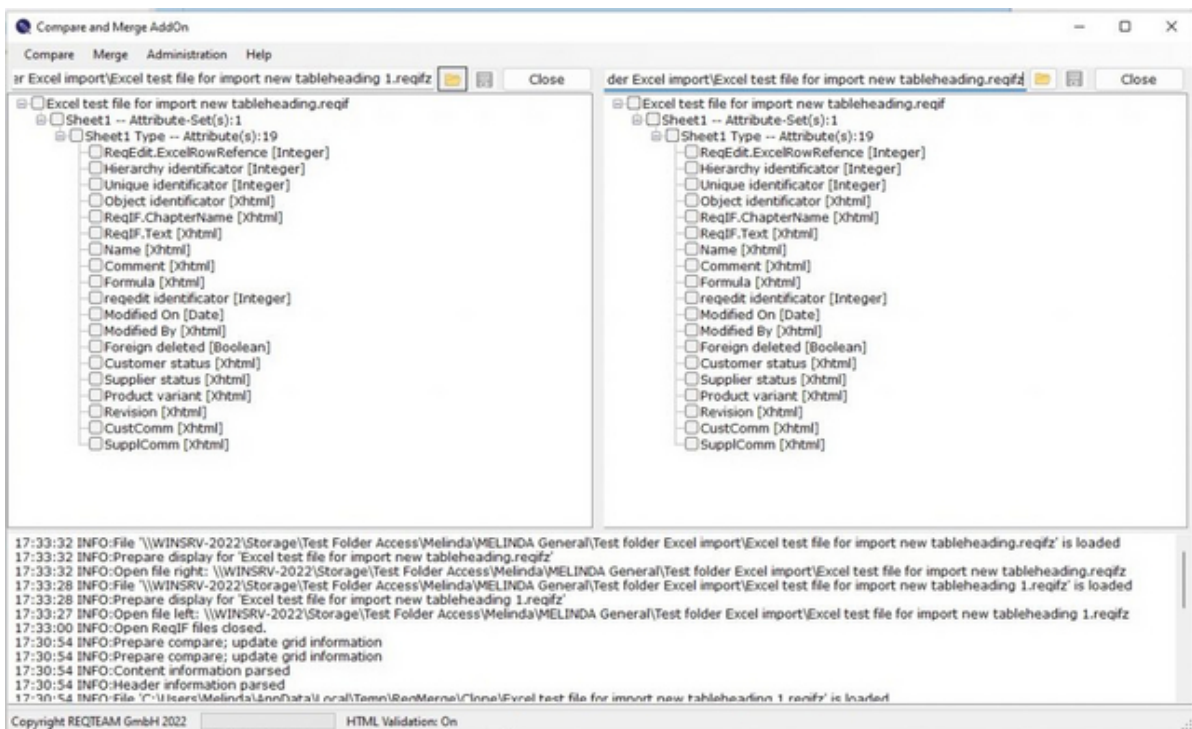
**NOTE: Closing the file will release the exclusive lock and can be used by other applications**

### Compare limitations

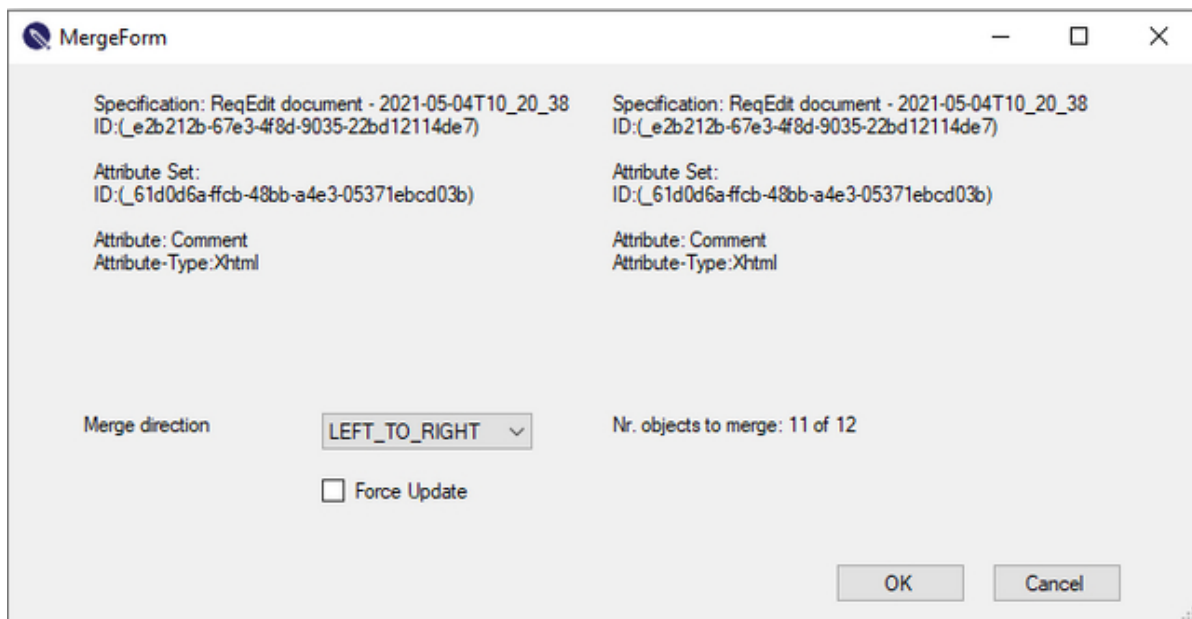
- Compare works only on ReqIF files that can be opened in ReqEdit
- HTML element property changes will be ignored (class, id, style) except attachments (object data tags)
- String and HTML attributes outside of the main column will be shortened the display to 50 characters
- Sometimes if the content comparison is too complex will highlight more new changes than necessary, but will never miss any change
- Opened files are exclusively locked until closed (no other app can open the files)

## Merge ReqIF files

Merge attributes one at a time from a ReqIF file to another ReqIF file. Can only be used in standalone mode, meaning the files cannot be opened in other applications.



Open files on each side then select the attributes that needs to be merged and press **Merge** menu item in the top menu. The merge options will be displayed.

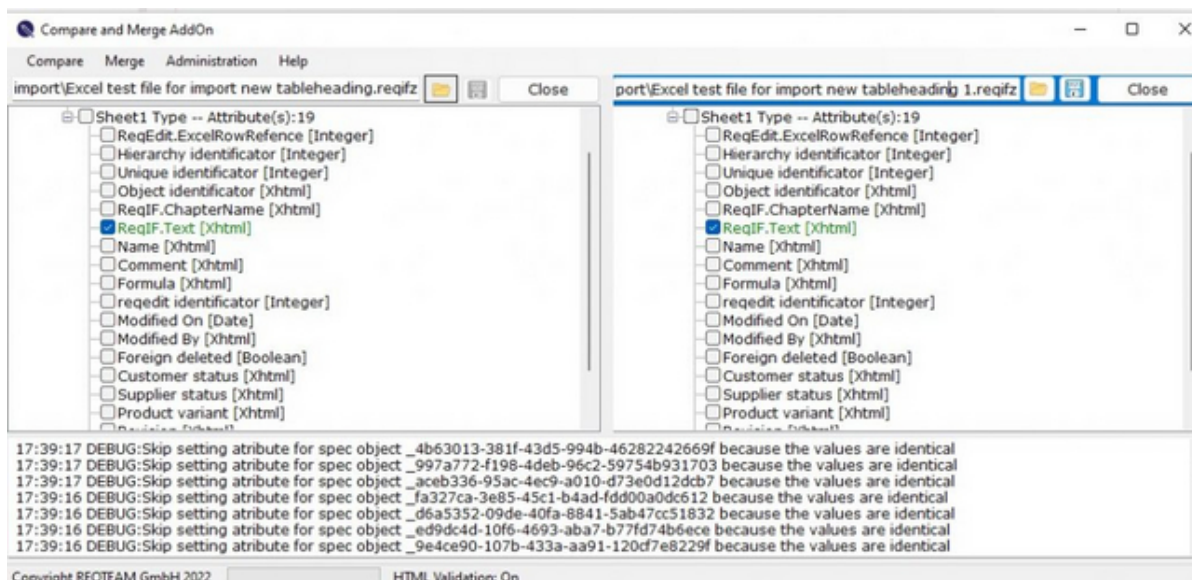


ReqEdit merge add-on displayin the options window and the merge details

**Merge direction:** left to right or right to left, depending on which side of the wizard window are the new and old files

**Force update:** copies also the empty values from source

After the merge the attributes will be highlighted with green, repeat the merge process for other attributes as well

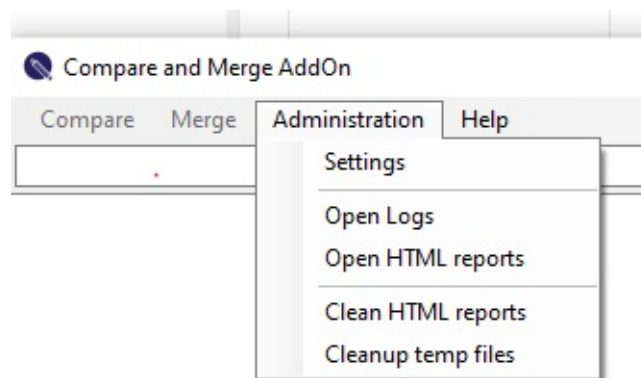


## Save the merge results

Clicking the SAVE icon next to the file location will write the merged content into that file, depending on the direction of the merge.

## Data management

All files generated by the tool can be managed from the Administration menu.



Compare and Merge AddOn Administration menu

**Open Logs** – will show the daily logs folder

**Open HTML reports** – will show the folder of the comparison results

**Cleanup HTML reports** – will delete all the comparison results

**Cleanup temp files** – will delete all generated files

## Merge Limitations

- Only spec objects with the same ID can be merged
- Only the same type of attributes can be merged
- Opened files are exclusively locked until closed (no other app can open the files)

## Logging

The application will produce a debug log containing all the performed actions Log is saved in daily files.

### Contents of log files

- Opening files
- Errors
  - Attribute type mismatches
  - No matches found
  - No attributes selected
- Compare statistics
- Merge execution with details
  - Updated values
  - Skip merging causes
    - \* identical values
    - \* empty values

## 2.5 July

### Licence update without a licence manager installed (no ACC) (2022-07-18 10:57)

#### Use case:

License update in case of no license manager installed and more than one PC with ReqEdit installed. The firm becomes the necessary .v2c files for license updating from REQTEAM, conform the license IDs. Each .v2c file is for the PC with the same KeyID.

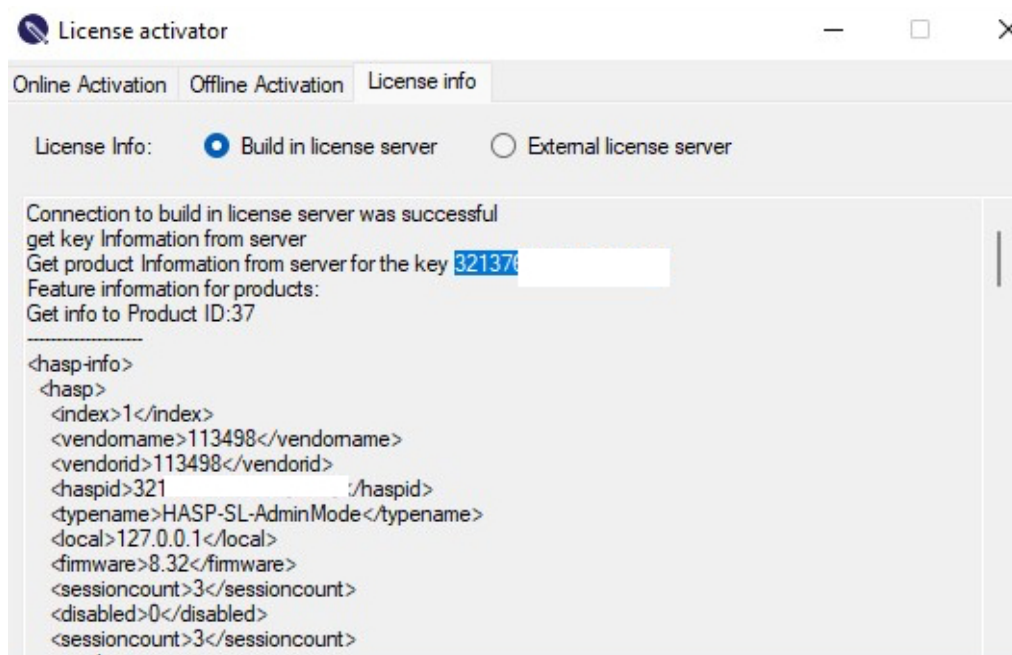
#### 1. Find the KeyID info.

In File **ReqEdit/LicenseActivation.exe.config** change settings to **ForceStart**.

```
<setting name="ForceStart" serializeAs="String">  
<value>True</value>  
</setting>
```

Than click on **Reqedit / LicenseActivation.exe**

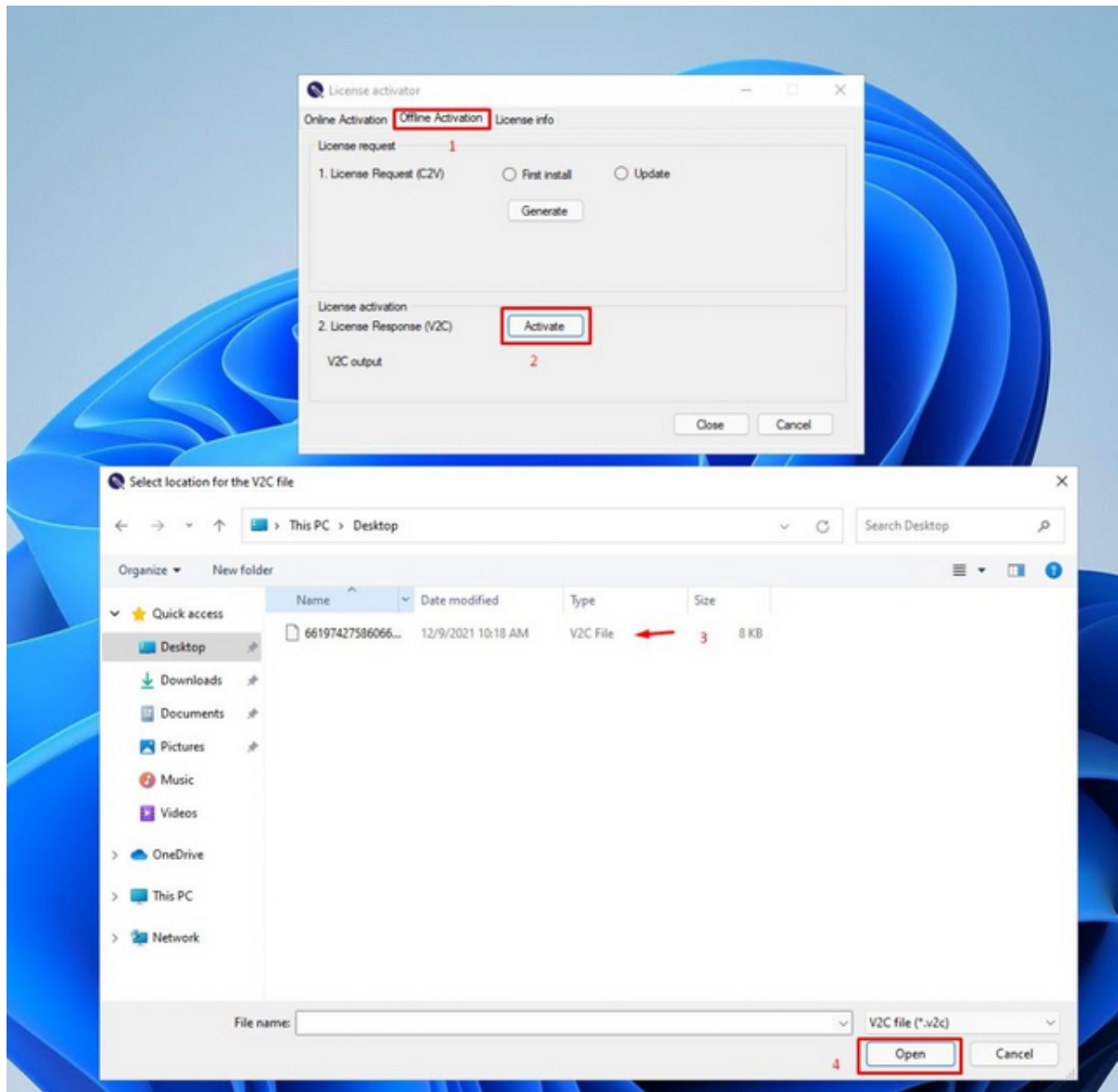
On the **License info** Tab you can find the Key ID of the certain PC



License activator - license info

2. From the **.v2c files** that REQTEAM sent to you **choose** the one with the same KeyID numbers.

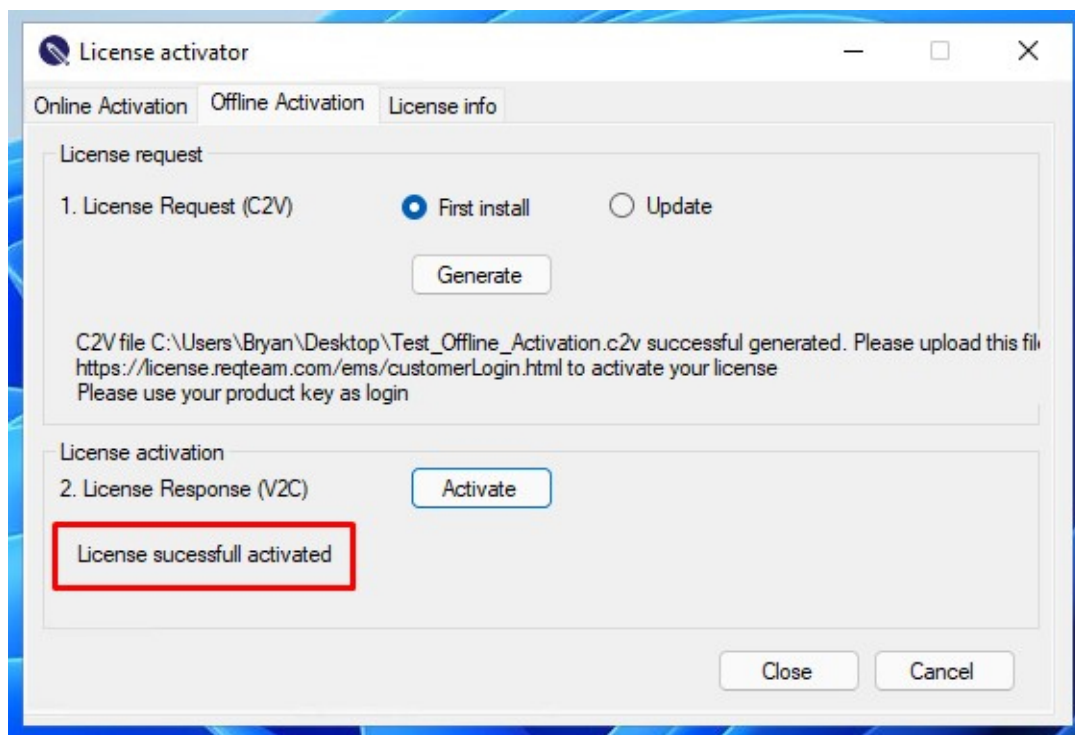
3. Go to **LicenseActivator** and click on the button **Activate**.



Update license process through offline activation

Choose the .v2c file for that PC.

Click **Open**



Successful license updating message.



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