

Visure 8

Release Notes

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Table of Contents

1	Visure Requirements ALM 8 Release Notes	4
1.1	Compatibility and migration	4
2	What's New in Visure 8.....	5
2.1	Review Management	5
2.1.1	Comments attributes and workflow	5
2.1.2	User references in comments	6
2.1.3	Approvals/rejections	7
2.1.4	Subscriptions and email notifications	8
2.1.5	Review Python script.....	9
2.2	Filters.....	10
2.2.1	Heading filter.....	10
2.2.2	Multilevel filters	11
2.2.3	Sharing filters	12
2.3	Visure Authoring 8	13
2.3.1	Gaudi User Interface	13
2.3.2	Home page	13
2.3.3	Dashboards	14
2.3.4	Traceability diagram.....	15
2.3.5	Traceability View	15
2.3.6	Integrated Artificial Intelligence for automatic requirements generation.....	16
2.3.7	Improved Documents view	16
2.3.8	Views Management	17
2.3.9	Managing Data Models	17
2.3.10	Managing attributes.....	18
2.3.11	Dark Mode.....	18
2.3.12	UI languages.....	19
2.3.13	User menu	20
2.3.14	Login	20
2.4	Visure Server	21
2.4.1	Performance and stability	21
2.4.2	Single Sign-On configuration.....	21
2.4.3	Visure Server Remote Admin	21
2.4.4	Python Scripts	22
2.5	Administration Center.....	22



2.5.1 Super Administrator users22

2.5.2 Email notifications.....22

2.5.3 Comments Category and Type.....23



1 Visure Requirements ALM 8 Release Notes

1.1 Compatibility and migration

WARNING

Please review this chapter carefully, as there may be database changes that can affect compatibility between versions.

- Visure Requirements 7.2 and older versions: These versions use an older database schema and require a database migration. Once the database is migrated to the latest version, Visure Requirements 7.2 and older clients will not be able to access the database.

IMPORTANT NOTE:

Once the migration is performed, it cannot be undone. Therefore, we highly recommend performing a database backup before upgrading.

The database upgrade process is simple: Install the new Visure Requirements ALM 8 Server and Visure Requirements ALM 8 Client, and open the database with the Administration Center. The Administration Center will automatically detect that the database was created with an older version and a message will prompt the user to migrate the database to the latest version. Click Yes to proceed with the migration. The process will depend on the version you are migrating from but may take some minutes.

- Visure Templates 5.2 and 5.3: Templates created with an older version of Visure will not be compatible.
- Visure Templates 6 and 7: Templates created with these versions will be compatible
- Visure Requirements ALM 8 is compatible with Visure Requirements Report Manager 8
- Visure Requirements ALM 8 is compatible with Visure Authoring 8
- Visure Requirements ALM 8 is compatible with Visure Contributor 8 (former Visure Reviewer)
- License Server 4.9.10 and License Server 4.9.25 are compatible with Visure Requirements ALM 8.
- Integrations and plugins: Some plugins and integration from version 7 are incompatible with version 8. The following plugins and integrations are available for version 8:
 - Integrations:
 - Compatible with v7, but newer versions available:
 - Visure Requirements integration with Atlassian JIRA
 - Visure Requirements integration with Azure DevOps
 - Visure Requirements integration with Enterprise Architect
 - Visure Requirements integration with Gitlab
 - Add-ins:
 - Version 7 of these add-ins are incompatible with v8
 - MS Word Import plugin
 - MS Excel Import plugin
 - Plugins and products:
 - Version 7 of these plugins are incompatible with v8 (newer version required):
 - Item Templates (free)
 - XRI (free)



- Source Code Parser (free)
- Version 7 of these plugins are compatible with v8:
 - QVScribe (product)
 - ReqIF (product)
 - Traceability Parser (free)
 - Test Management (free) – Newer version available
 - Risk Management (free)
 - Review Management (free) – Newer version available
 - Formulae (free)

2 What's New in Visure 8

2.1 Review Management

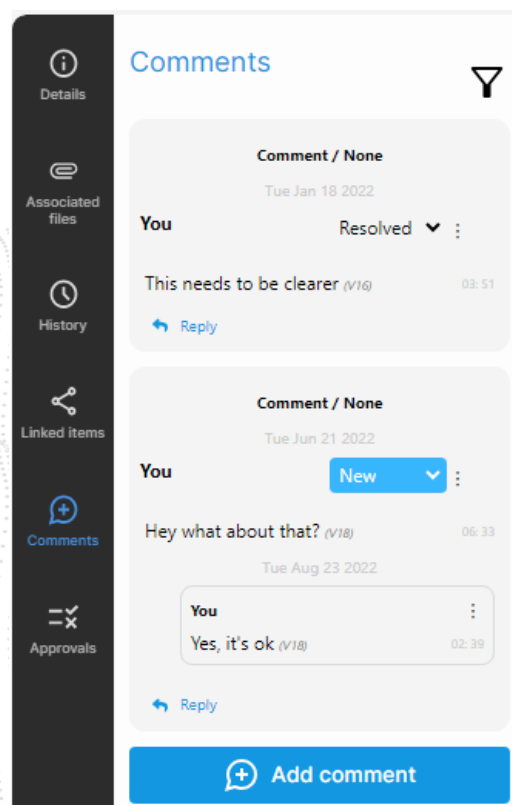
A fundamental improvement in Visure 8 is the implementation of multiple features that support review management processes. Users can adjust these features and configure them to accommodate the needs of each specific project.

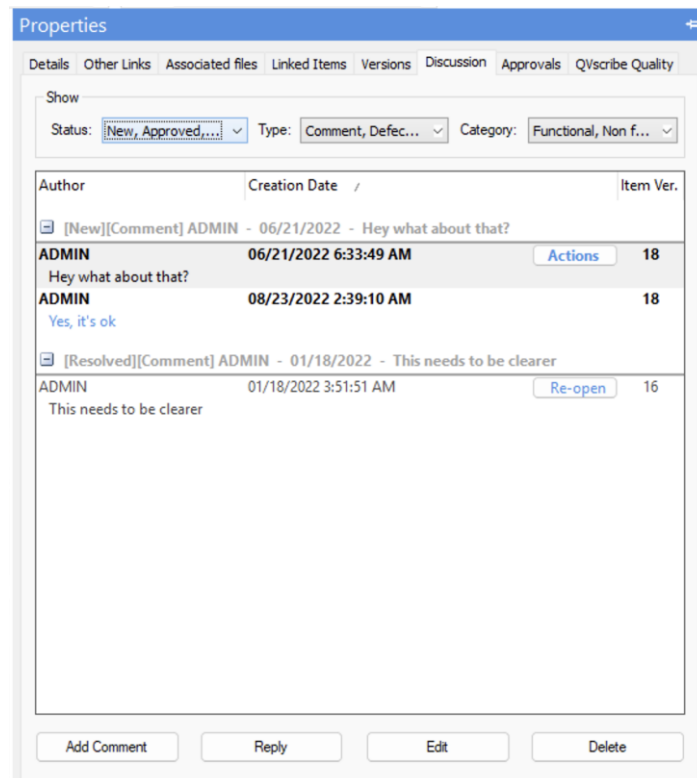
2.1.1 Comments attributes and workflow

Comments in Visure can now be categorized based on two new customizable attributes, Type (Functional, non functional, by default) and Category (Comment, Question, Suggestion, Defect, by default). The use of these attributes in comments allows better tracking and follow-up of the results of reviews.

In addition, the status of the comments has also been improved to support additional states, including New, Approved, Rejected, On hold and Resolved. These states implement an internal workflow that guides the users through the resolution of a comment.

This option is available both in Visure Authoring and Visure desktop:





Properties

Details Other Links Associated files Linked Items Versions Discussion Approvals QVscribe Quality

Show

Status: Type: Category:

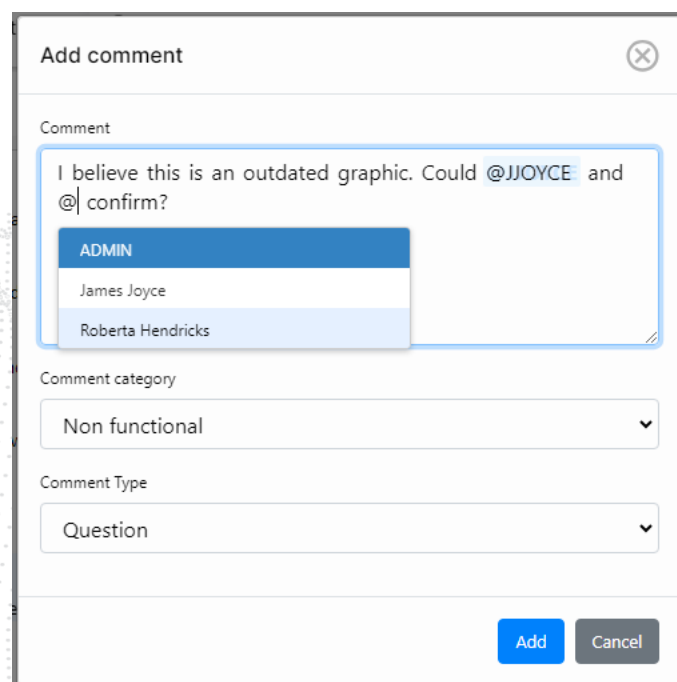
Author	Creation Date	Item Ver.
[New][Comment] ADMIN - 06/21/2022 - Hey what about that?		
ADMIN	06/21/2022 6:33:49 AM	18
Hey what about that?		
ADMIN	08/23/2022 2:39:10 AM	18
Yes, it's ok		
[Resolved][Comment] ADMIN - 01/18/2022 - This needs to be clearer		
ADMIN	01/18/2022 3:51:51 AM	16
This needs to be clearer		

Add Comment Reply Edit Delete

2.1.2 User references in comments

While performing a review, it is inevitable to have to engage with other users of the project. It is now possible to do so by simply mentioning them in a comment referencing their username, which will send them an email (if email notification is configured), letting them know that they have been referenced in a conversation.

Just by typing an @, Visure Authoring will provide a list of the project users to select from:



Add comment

Comment

I believe this is an outdated graphic. Could @JJoyce and @ confirm?

ADMIN

James Joyce

Roberta Hendricks

Comment category

Non functional

Comment Type

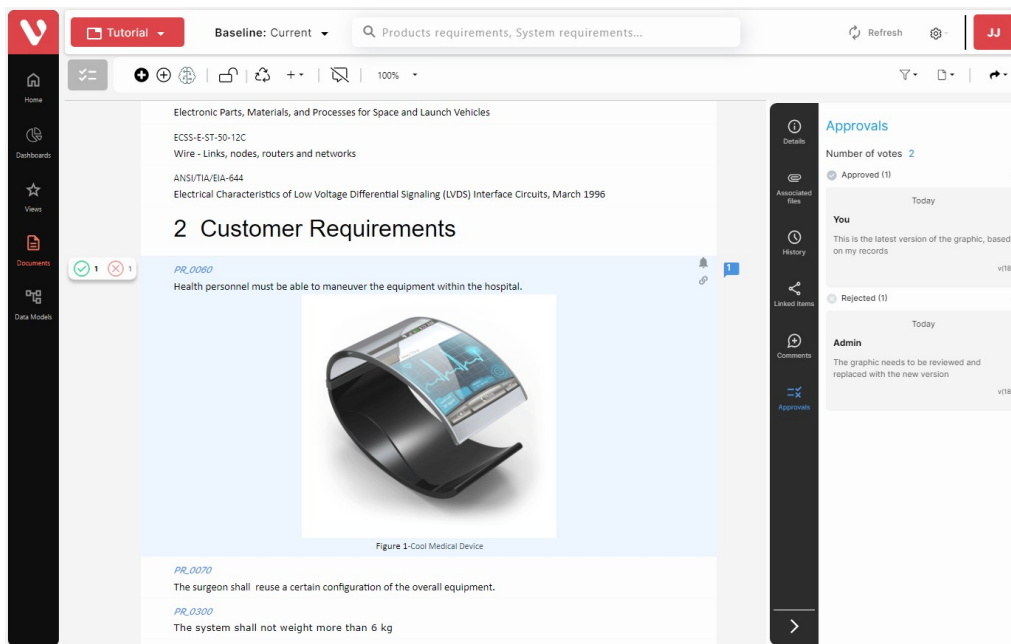
Question

Add Cancel

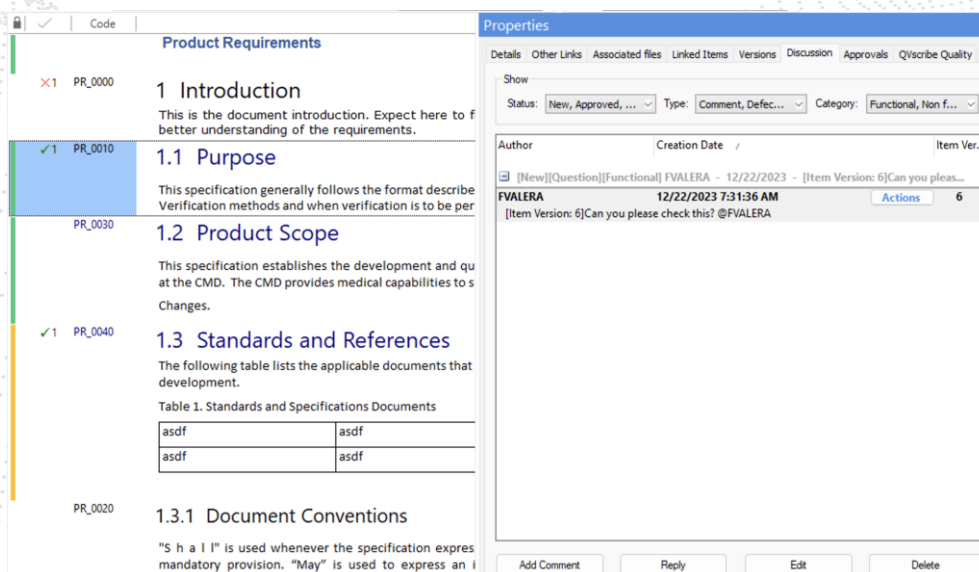
2.1.3 Approvals/rejections

Review processes typically rely on approvals provided by peers and/or customers. Visure 8 includes a new approval capability that leverages this part of the process to streamline the review process. Users can now Approve or Reject items without the need to having write access rights over them, which facilitates access to external users of the company. Each item will accumulate approvals and rejections from the team and will summarize them for the author of the item to make the appropriate corrections.

Visure Authoring can be leveraged to engage external users of the organization, as well as other less technical users:



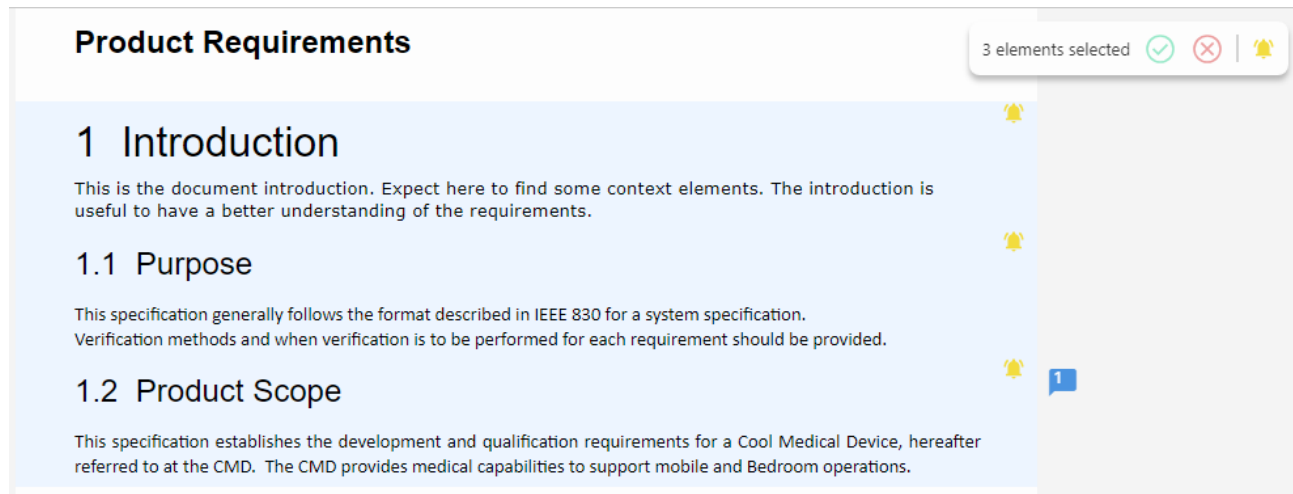
All approvals and rejections made in the web client will also be available on the desktop and vice versa, so a user will be able to enter a rejection via Visure Authoring, while other responds through the desktop client.



2.1.4 Subscriptions and email notifications

To keep up with the review process, users will be notified via email notification if they are assigned to items, if a new comment or reply is entered in one of their items, if they are referenced in the comments, or if their items are approved or rejected. Users can also subscribe to individual items to receive email notifications whenever the items are modified or updated.

This option is available both through the desktop and the web client:

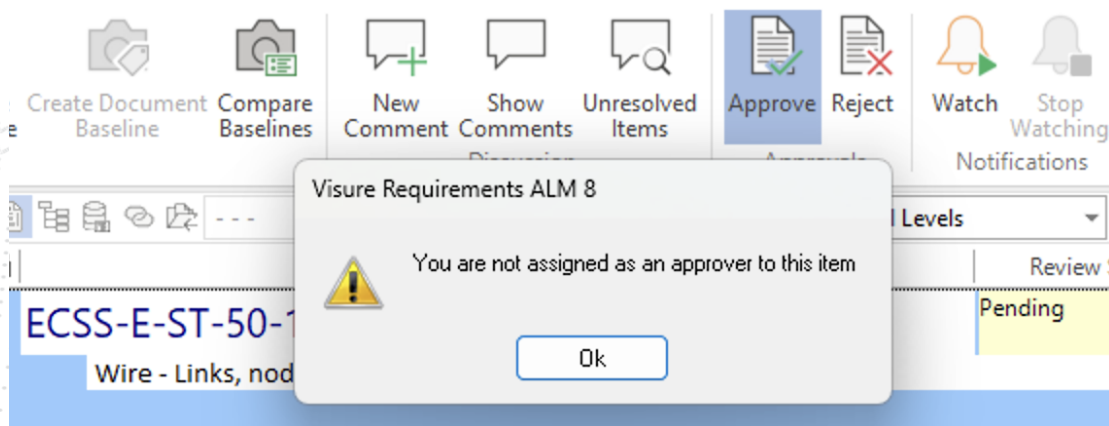
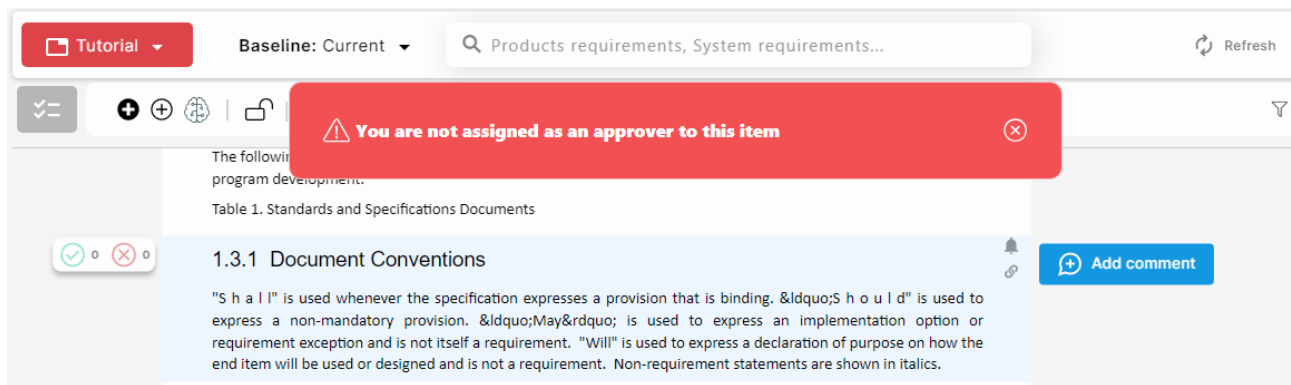


2.1.5 Review Python script

A new VisureReviewProcess.py Python script is installed by default in the Visure Server that enables the use of Review Due Date, Approvers and Reviewers attributes. If these attributes exist, users can use them to define a Review Due Date, and a list of Approvers and Reviewers per document. If a date is selected in the Review Due Date, the script will prevent users from approving/rejecting items or entering new comments after the due date. If users are included in the Approvers attribute, then only these users will be able to approve or reject items in that document. Approvers will also be able to enter comments on the items in that document. Finally, if users are included in the Reviewers attribute, these users will be able to enter comments on the items in that document, along with the approvers.

The scope of these attributes (approvers and reviewers) can be modified to apply to individual items, as opposed to the entire document. This script can also be modified to accommodate specific project needs.

Python scripts are server-based, which means that they will apply both to the desktop and the web interfaces.



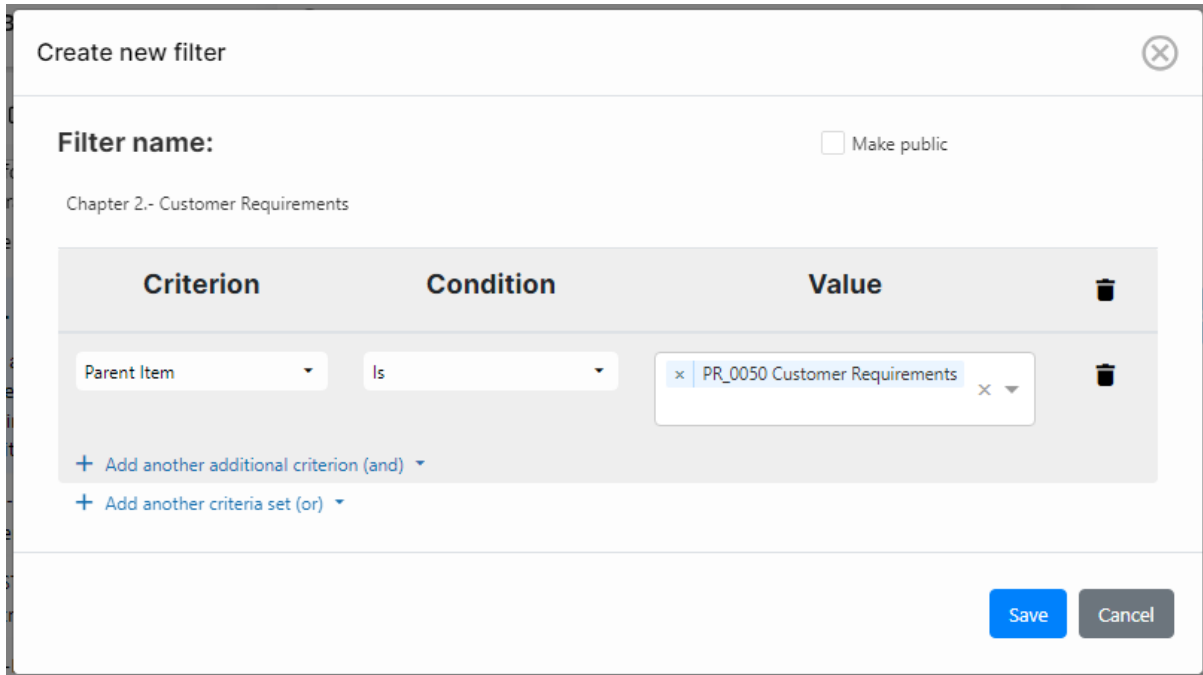
2.2 Filters

Filters have been improved to better support users' daily activities:

2.2.1 Heading filter

The Heading filter allows users to filter a document to display only a particular chapter. This can be especially useful when reviewing documents or assigning the items in a chapter to specific users for review, for instance.

This filter is available both in the desktop and web interface:



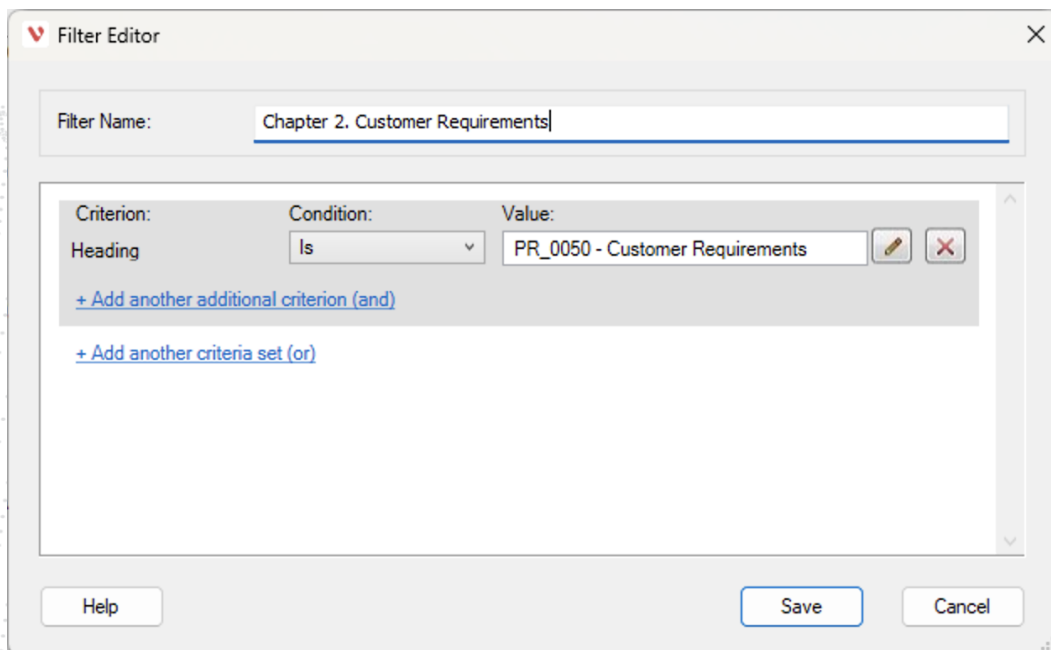
Create new filter [Close]

Filter name: ☐ Make public

Criterion	Condition	Value	
Parent Item	Is	PR_0050 Customer Requirements	[X] [Trash]

+ Add another additional criterion (and)
 + Add another criteria set (or)

Save **Cancel**



Filter Editor [Close]

Filter Name:

Criterion:	Condition:	Value:
Heading	Is	PR_0050 - Customer Requirements [Edit] [Delete]

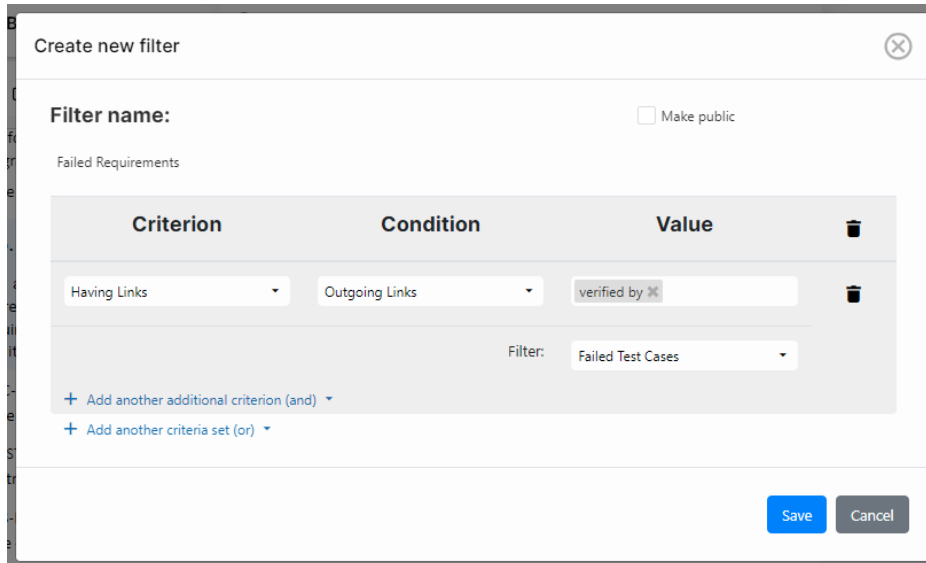
+ Add another additional criterion (and)
 + Add another criteria set (or)

Help **Save** **Cancel**

2.2.2 Multilevel filters

The multilevel filters allow users to apply an additional filter in the Having Links filter to see only the items that are related to other items that fulfill a condition. For instance, this type of filter allows users to display requirements that are traced to only software requirements, opposed to any other lower-level requirement e.g. mechanical requirements. It also allows displaying requirements that are related to tests that are “failed”. This failed tests filter would be a filter that would be applied to the related test cases.

This filter is also available both in the desktop and web interface:



Create new filter

Filter name: ☐ Make public

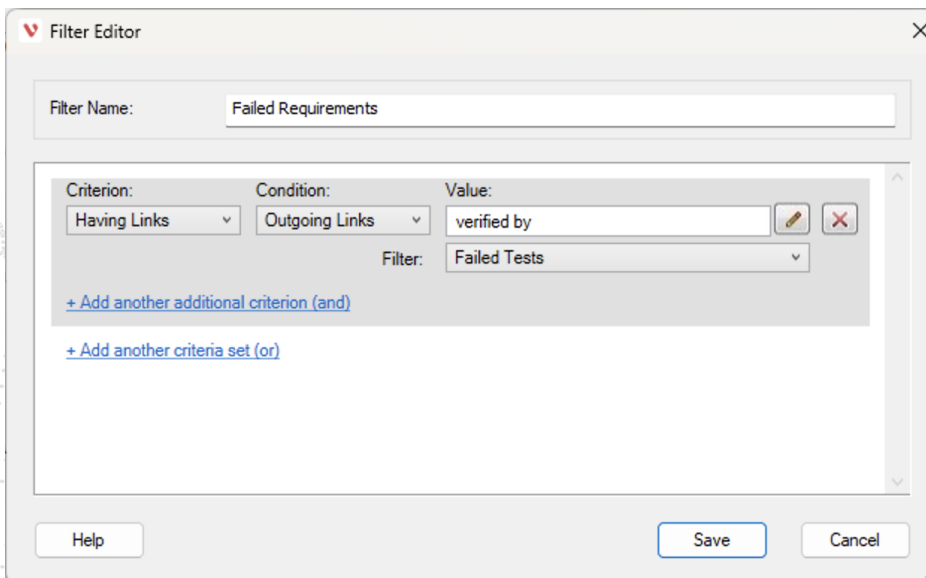
Failed Requirements

Criterion	Condition	Value	
Having Links	Outgoing Links	verified by	

Filter:

[+ Add another additional criterion \(and\)](#)
[+ Add another criteria set \(or\)](#)

Save **Cancel**



Filter Editor

Filter Name:

Criterion:	Condition:	Value:	
Having Links	Outgoing Links	verified by	

Filter:

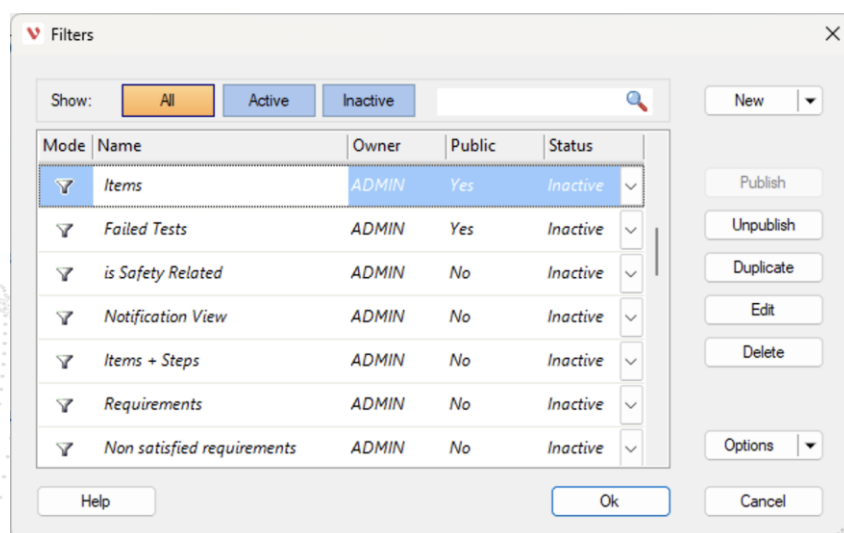
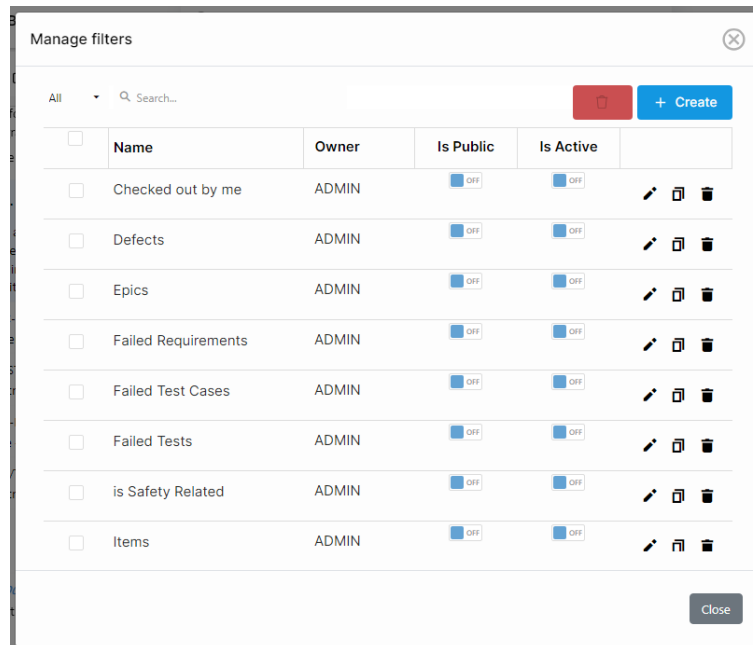
[+ Add another additional criterion \(and\)](#)
[+ Add another criteria set \(or\)](#)

Help **Save** **Cancel**

2.2.3 Sharing filters

Most users in the same group in a project have similar needs, and therefore, typically require the use of the same or very similar filters and views. Visure 8 allows users to publish and unpublish filters to the rest of the users in the project, so that other users can have them readily available when they log in to the project for the first time.

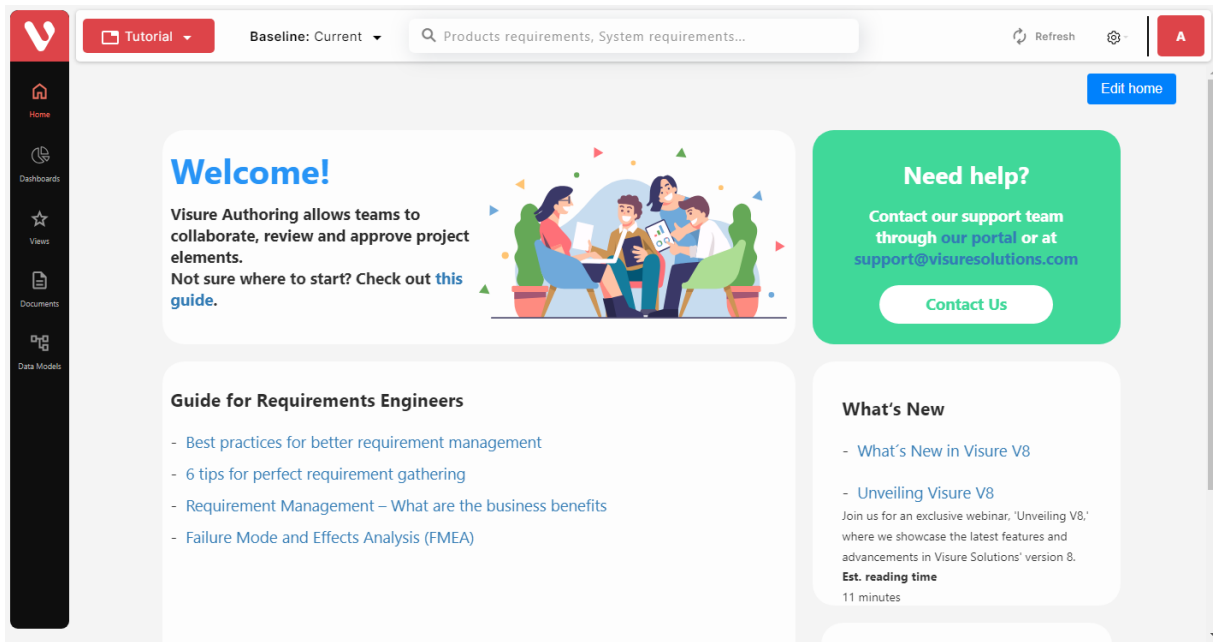
Users will be able to share filter from both the desktop and the web interface:



2.3 Visure Authoring 8

2.3.1 Gaudi User Interface

Inspired by the organic and rounded shapes that characterize the architecture of this iconic architect, Visure Authoring 8 aspires to provide a natural and intuitive interface to users that will improve their daily user experience.

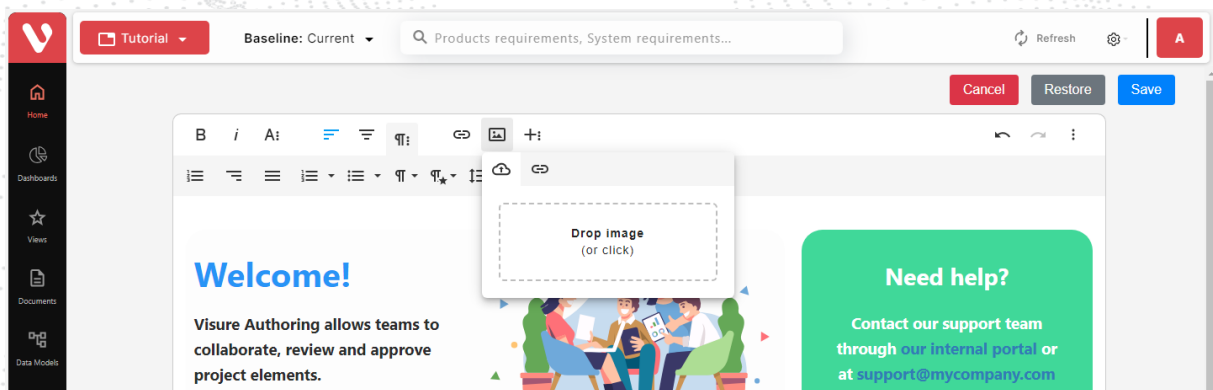


2.3.2 Home page

Projects nowadays involve more users and are more dynamic and agile than ever before and sharing information and communicating effectively become essential for project success.

The home page in Visure Authoring becomes a cornerstone to sharing important project and process information with the team such as links to internal resources, videos, documentation, as well as deadlines and company points of contact.

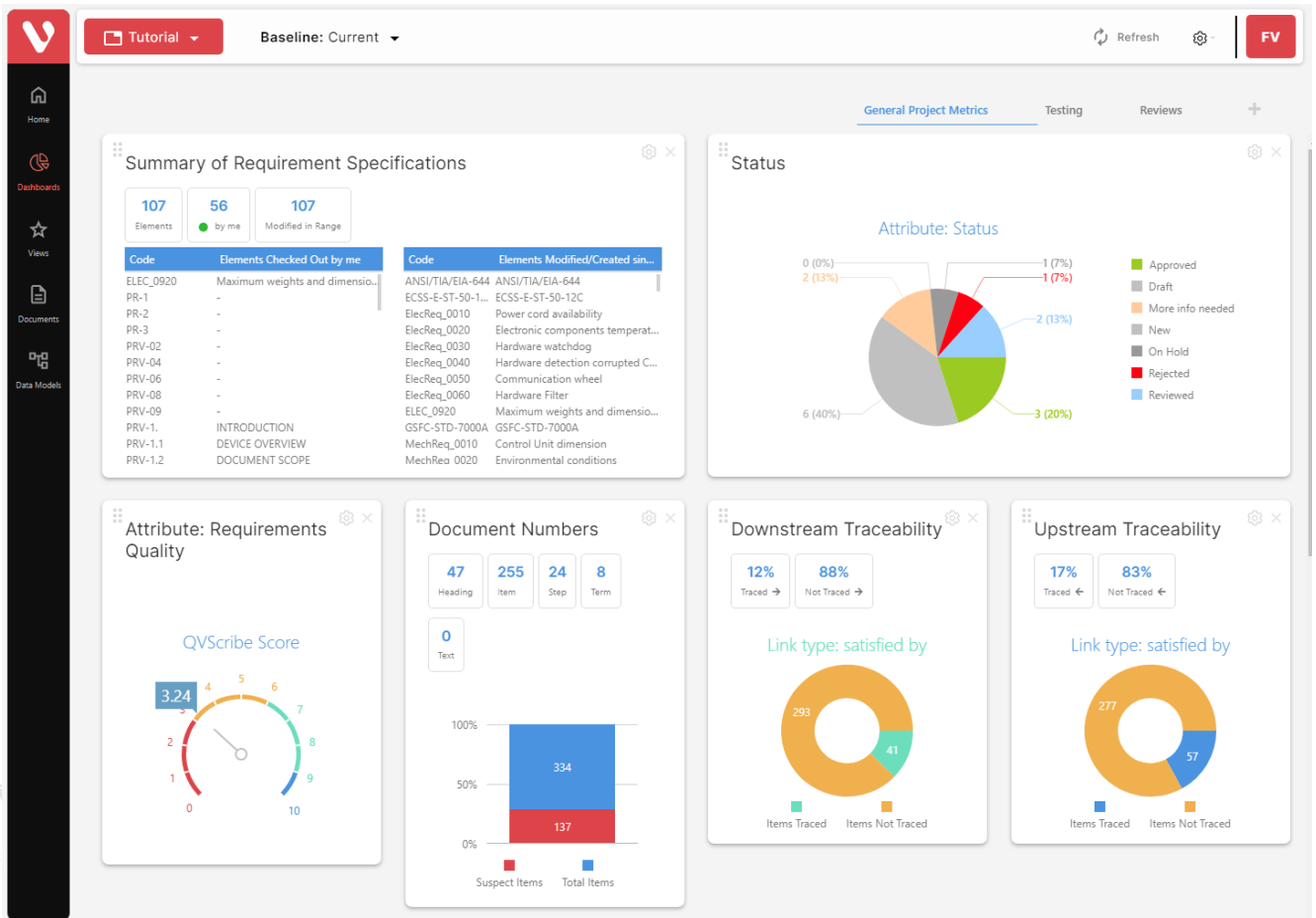
The home page provides project administrators with a simple HTML editor to create this landing page for the users of the project.



2.3.3 Dashboards

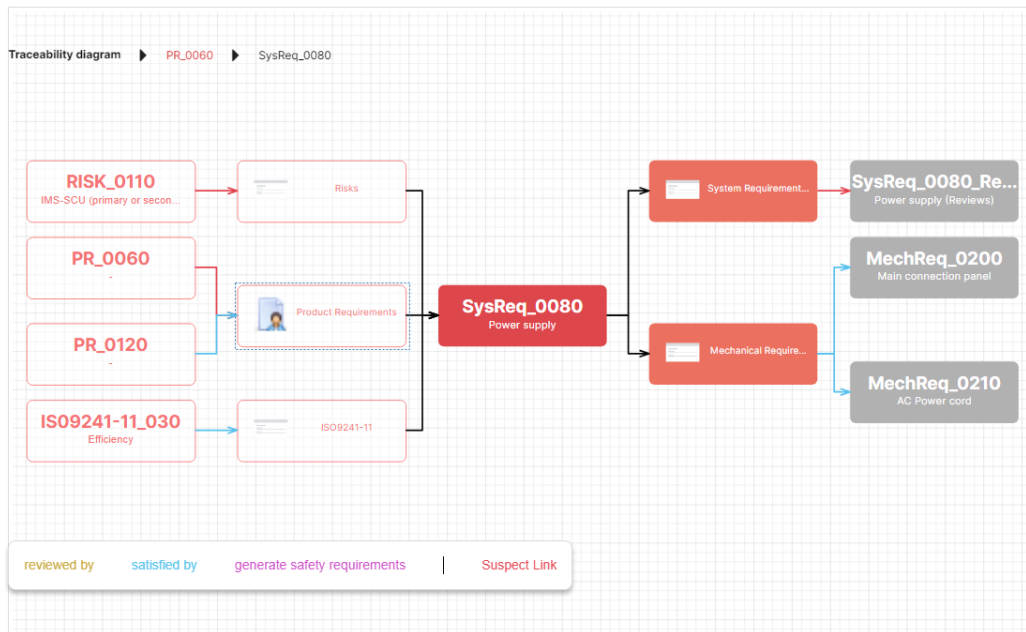
Dashboards are another essential part of project success by providing project stakeholders with critical information to make essential decisions in the project.

Visure Authoring 8 now incorporates powerful, yet easy-to-configure dashboards that summarize important project information and convey it to the users in a quick and understandable way. Dashboards in Visure can be created by project managers and tailored to the needs of each project and user group. End users will be able to navigate from these dashboards straight to the items simplifying the identification of pitfalls, bottlenecks, or non-compliances.



2.3.4 Traceability diagram

One of the most tedious tasks in Requirements Management is establishing and maintaining traceability in the project. However, this task pays off significantly when there are changes in the requirements and we need to analyze the impact of those changes. The traceability diagram is an especially useful way of representing project traceability, as it allows users to navigate through the traces of the items by clicking on the items and expanding on their links:



2.3.5 Traceability Tree View

Traceability trees are a very versatile way of displaying large quantities of items and associated information. They represent traces in a hierarchical format, either from higher to lower levels, or the other way around. Traceability trees can also display attribute information from items at each level, providing relevant information that may be useful for the analysis of the traces.

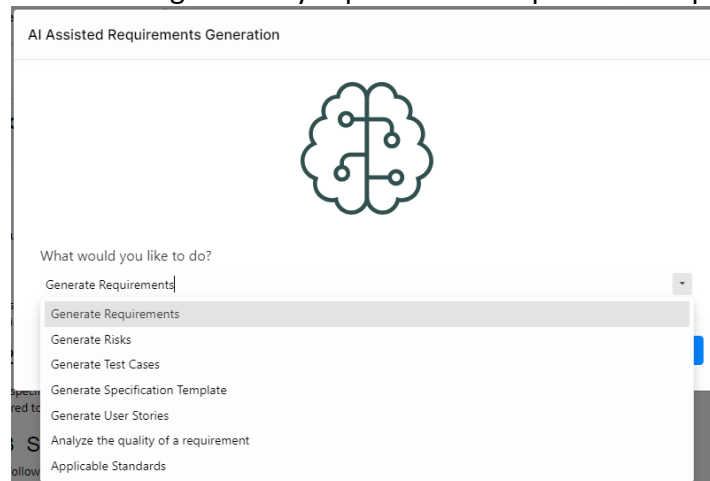
Visure Authoring now allows users to display documents in a Traceability Tree by selecting this type of view from the menu.

Code	Text Description	Status
PR_0040	The following table lists the applicable documents that contain the standards and specifications pertaining to the program development. Table 1. Standards and Specifications Documents	New
PR_0020	"S h a l l" is used whenever the specification expresses a provision that is binding. "S h o u l d" is used to express a non-mandatory provision. "May" is used to express an implementation option or requirement exception and is not itself a requirement. "Will" is used to express a declaration of purpose on how the end item will be used or designed and is not a requirement. Non-requirement statements are shown in italics.	New
GSFC-STD-7000A	General Environmental Verification Standard (GEVS) for GSFC Flight Programs and Projects.	New
MIL-STD-1547B	Electronic Parts, Materials, and Processes for Space and Launch Vehicles	New
ECSS-E-ST-50-12C	Wire - Links, nodes, routers and networks	New
ANSI/TIA/EIA-644	Electrical Characteristics of Low Voltage Differential Signaling (LVDS) Interface Circuits, March 1996	New
PR_0050		New
PR_0060	Health personnel must be able to maneuver the equipment within the hospital. Figure 1-Cool Medical Device	Ready for review
SysReq_0060	The system shall be able to save and later modify "preference settings" by Surgeon. These settings might include camera, scope, audio, video, and ergonomic preferences.	New
SysReq_0080	One power cord (or hard-wired connection for integrated components) at each subsystem shall provide power to all supplied components of that subsystem	New
SysReq_0080_Reviews	One power cord (or hard-wired connection for integrated components) at each subsystem shall provide power to all supplied components of that subsystem	New
MechReq_0200	The following shall be available on the main connection panel for access by end users.	New
MechReq_0210	One AC power cord shall be 5 meter long minimum.	New
SysReq_0110	The system shall be implemented following the security features XYZ.	New



2.3.6 Integrated Artificial Intelligence for automatic requirements generation

Generating *high quality* requirements automatically seemed like science fiction not that long ago. Visure Authoring now makes this a reality by leveraging Generative AI. This module can be enabled or disabled by administrators and allows users to generate project assets such as requirements, complete requirement specifications, risks or tests automatically, based on a given idea or request. This module can be used to generate requirements from scratch, fine-tune existing requirements, or cross-check that we haven't forgotten any aspect of our requirements specification.

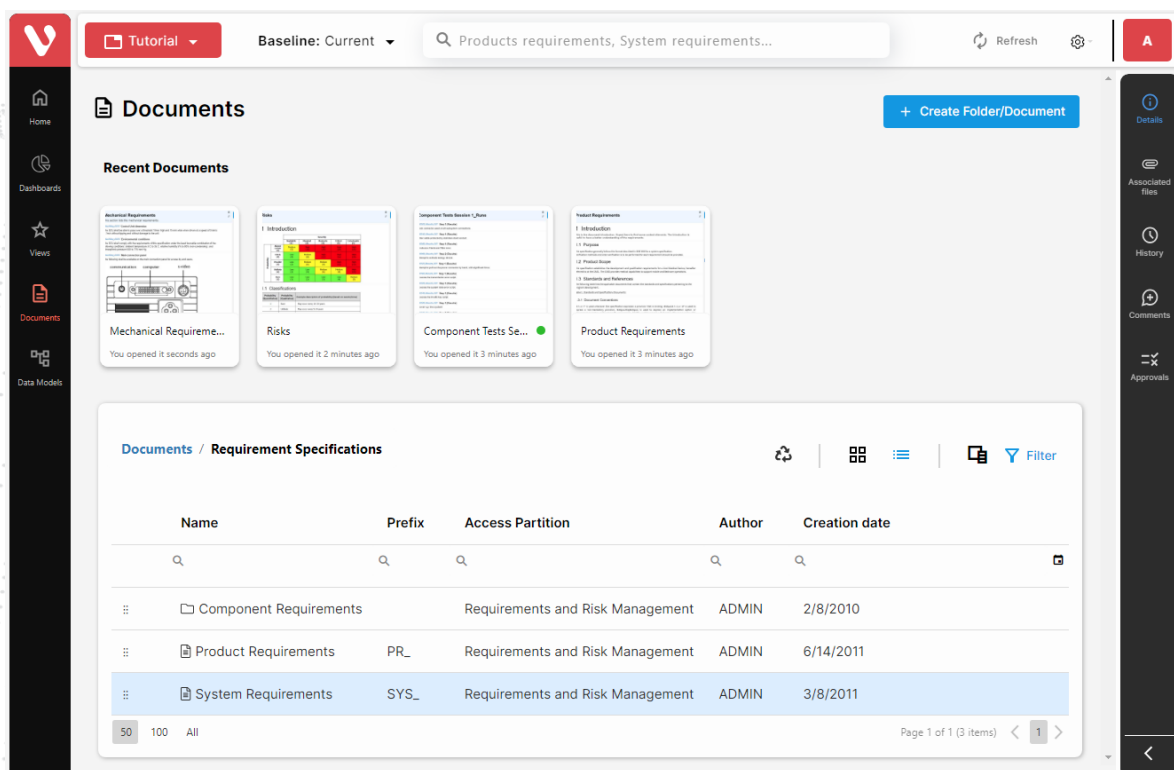


2.3.7 Improved Documents view

The new documents view provides a more natural and intuitive environment for users to create and manage their documents in a folder structure that will simplify their everyday life.

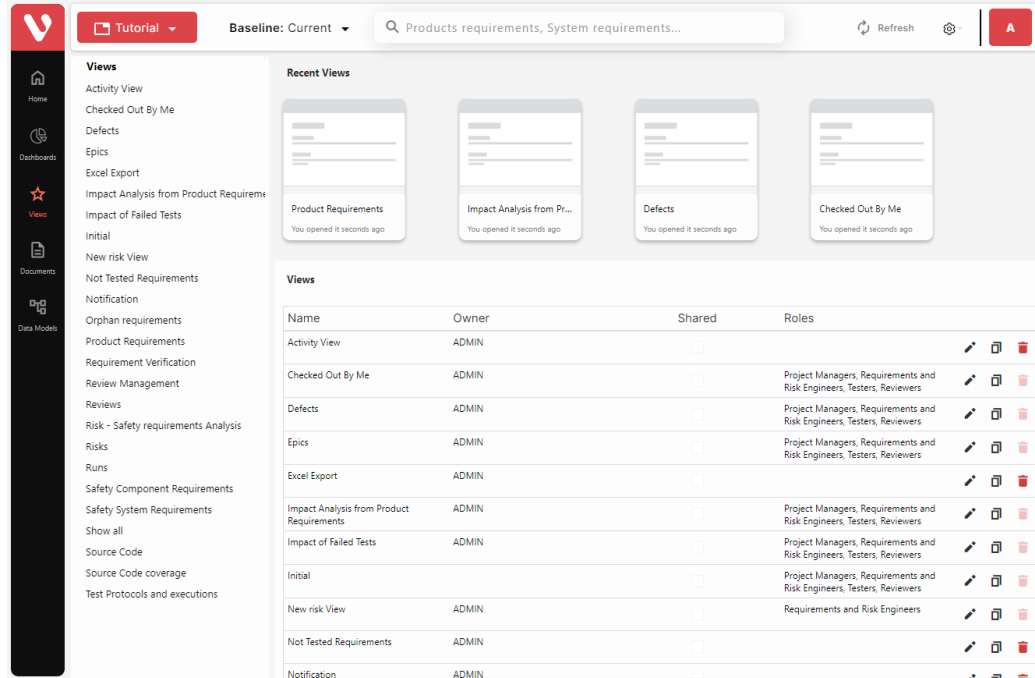
The recent documents section provides a thumbnail of the documents the user has been working on recently, simplifying the access to these documents.

The list view of documents allows users to display columns with information on the document and classify and filter them based on these.



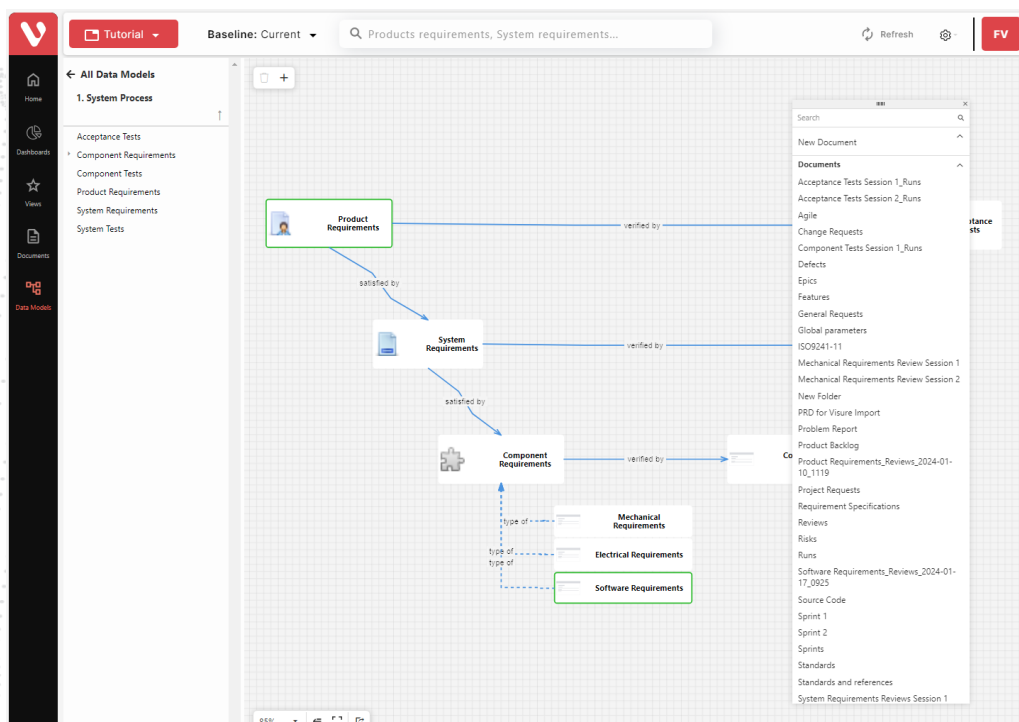
2.3.8 Views Management

Views are a fundamental part of the use of Visure, allowing users to customize the way they work with each document in the project. Creating and sharing views between users is essential to an effective collaboration. Visure Authoring provides a full environment for users to create, share and manage their views within a project.



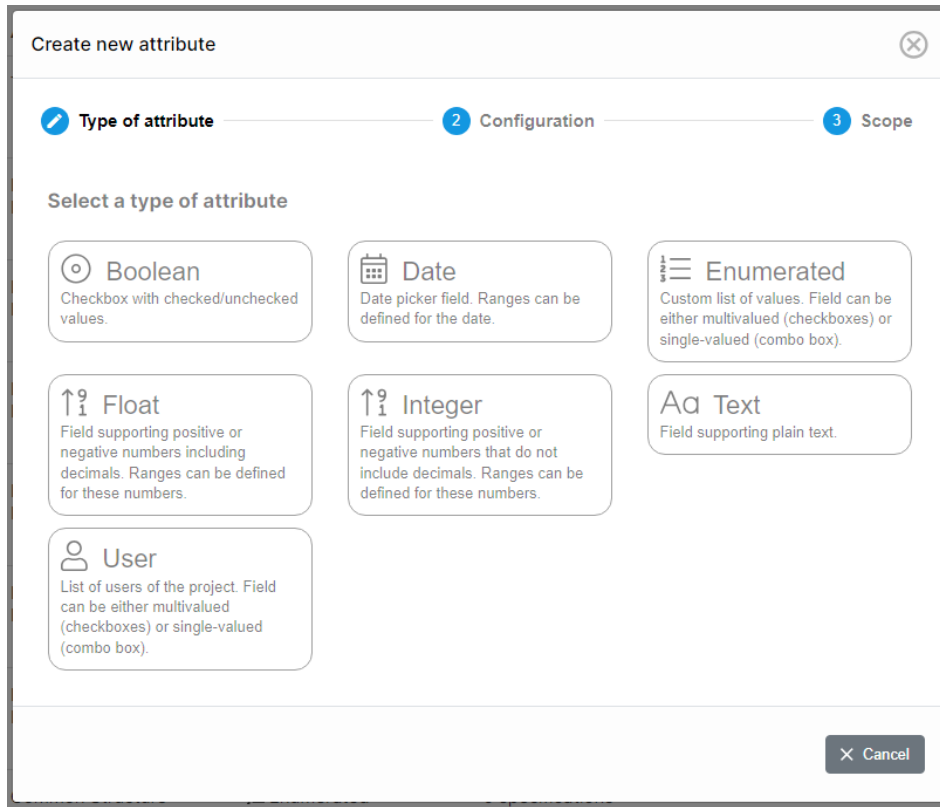
2.3.9 Managing Data Models

Data Models are the backbone of the process defined in Visure. They not only define the allowed links between the documents, but they create a common understanding among the project members, of the decomposition of the system and the break-down structure. Visure Authoring now allows project managers to create, edit and manage these data models in a simple way.



2.3.10 Managing attributes

Custom attributes allow project managers to customize the processes to the specific needs of the organization and the project. Visure supports the definition of different types of user attributes and assigns them to the different documents in the project. The definition of these attributes can now be done entirely from Visure Authoring, in a simplified way, through a three-step wizard.



Create new attribute

1 Type of attribute — 2 Configuration — 3 Scope

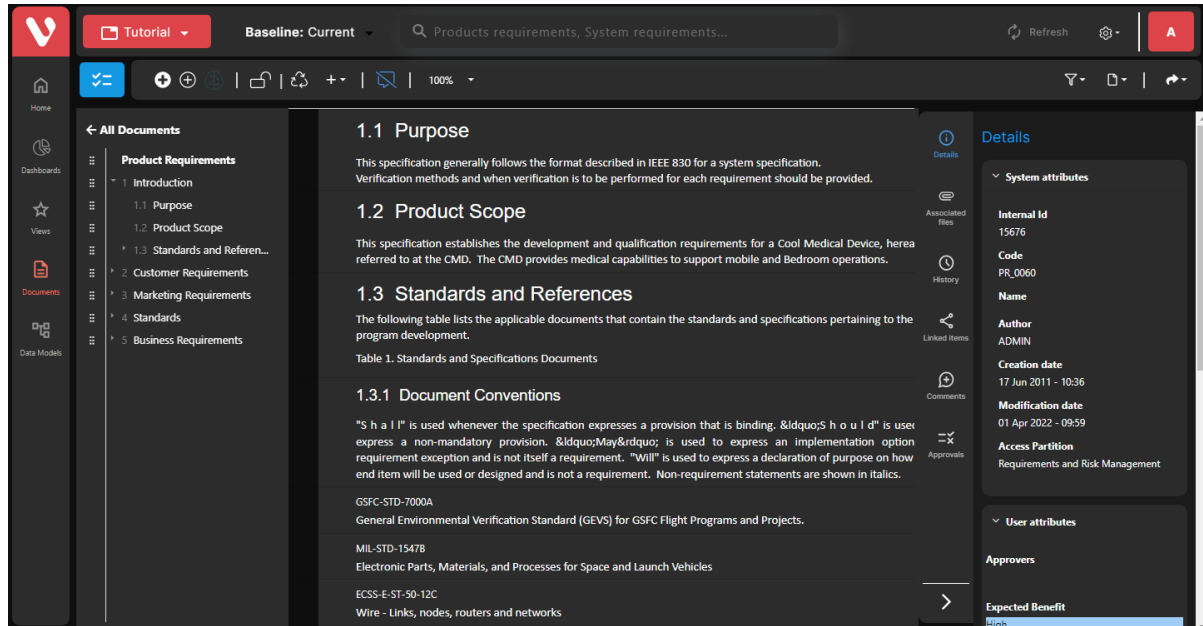
Select a type of attribute

- Boolean**
Checkbox with checked/unchecked values.
- Date**
Date picker field. Ranges can be defined for the date.
- Enumerated**
Custom list of values. Field can be either multivalued (checkboxes) or single-valued (combo box).
- Float**
Field supporting positive or negative numbers including decimals. Ranges can be defined for these numbers.
- Integer**
Field supporting positive or negative numbers that do not include decimals. Ranges can be defined for these numbers.
- Text**
Field supporting plain text.
- User**
List of users of the project. Field can be either multivalued (checkboxes) or single-valued (combo box).

Cancel

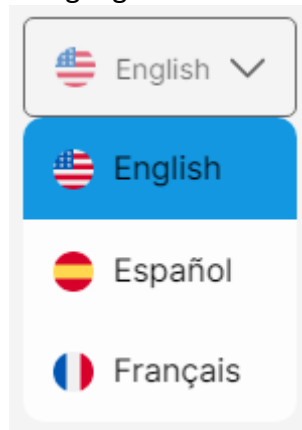
2.3.11 Dark Mode

Dark mode in applications have gained in popularity, due to the relaxing nature of its colors, especially when working inside offices without sufficient natural sunlight or at night. Visure Authoring users can now toggle between light and dark mode within Visure Authoring.



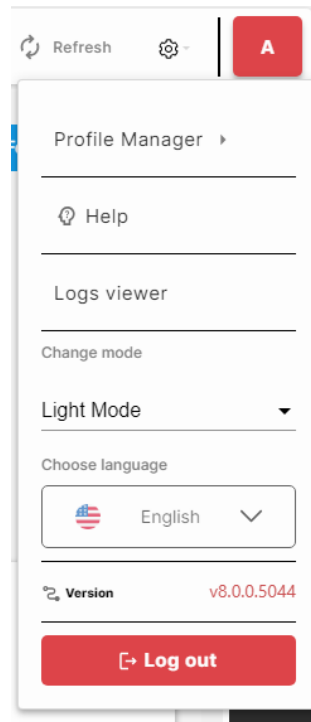
2.3.12 UI languages

Visure Authoring now provides new UI languages that the users will be able to select from:



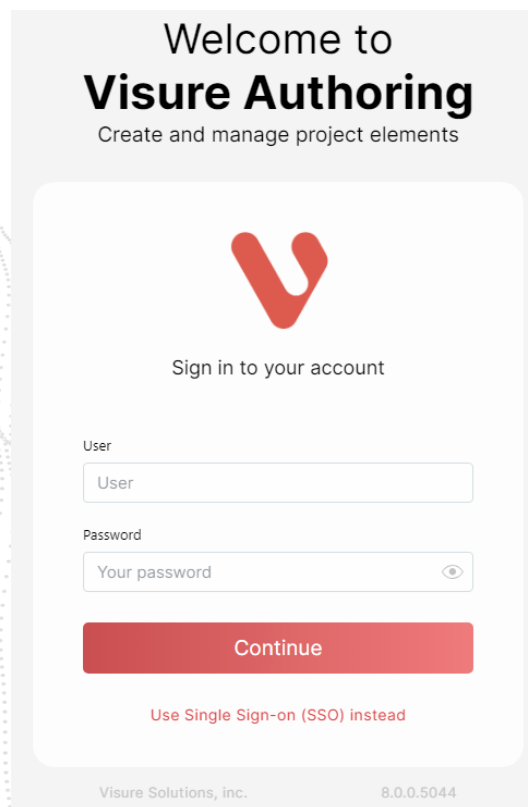
2.3.13 User menu

The new user menu provides users with multiple configuration settings, and profile management.



2.3.14 Login

The user login has been improved not only with SSO capabilities that will allow the user to login in seamlessly, but Visure saves information on the latest project and group used to load the same environment in subsequent logins.



2.4 Visure Server

2.4.1 Performance and stability

As part of our ongoing effort to support increasingly bigger databases and teams, the Visure database and server has been optimized to support even bigger repositories and a higher number of concurrent users.

2.4.2 Single Sign-On configuration

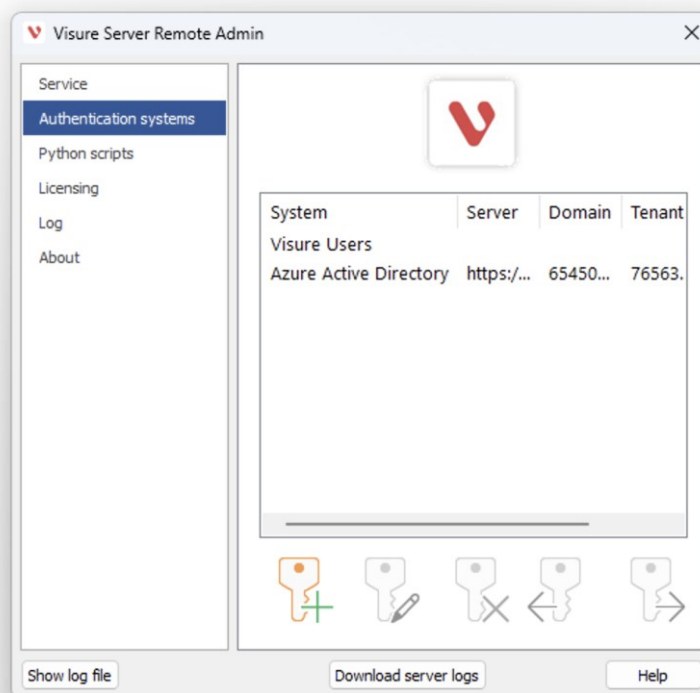
As organizations grow, it becomes increasingly necessary to manage users in a centralized way. Azure Entra ID (former Azure Active Directory), and other OpenID Connect applications such as Okta or MyID provide a solution for user authentication across the board.

Visure can now integrate with these solutions for user authentication. Visure administrators can configure the integration via the Visure Server to provide a seamless user experience.

The user provisioning has also been improved to allow users defined in the user authentication application Sign Up to Visure. During the first login attempt, if the Visure administrator has enabled this option, sign up user will be created in Visure automatically retrieving all the information from the user authentication app, and will send an email to the Visure administrators, letting them know that a new user has been created in the application and is waiting to be assigned to a project.

2.4.3 Visure Server Remote Admin

The new Visure Server Remote Admin application allows administrators to manage some of the server features remotely and conveniently. This feature needs to be activated in the actual Visure Server, and allows the Administrators remotely restart the Visure server, configure Authentication Systems such as Azure Entra ID (former Azure Active Directory), upload python scripts, change license server configuration and download server log files.



2.4.4 Python Scripts

The support for Python scripts has been extended to incorporate more capabilities such as access to hierarchical and association links, for instance, to update an item based on its children or related items.

The Visure Server and client now include a complete Python Programmer's Reference Guide.

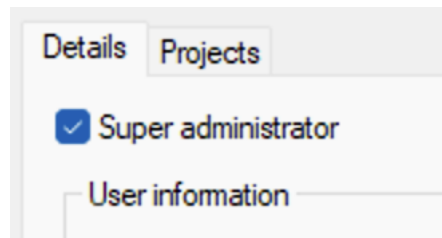
The Visure Server also automatically installs a sample python script that enables the use of Review Due Date, Approvers and Reviewers attribute for the use in the review process. This script can be used as an example for the development of new scripts.

2.5 Administration Center

2.5.1 Super Administrator users

Visure 8 now supports shared repository administration by allowing multiple users to have Super Administrator access rights over the database, easing the burden of project and user creation from the ADMIN user.

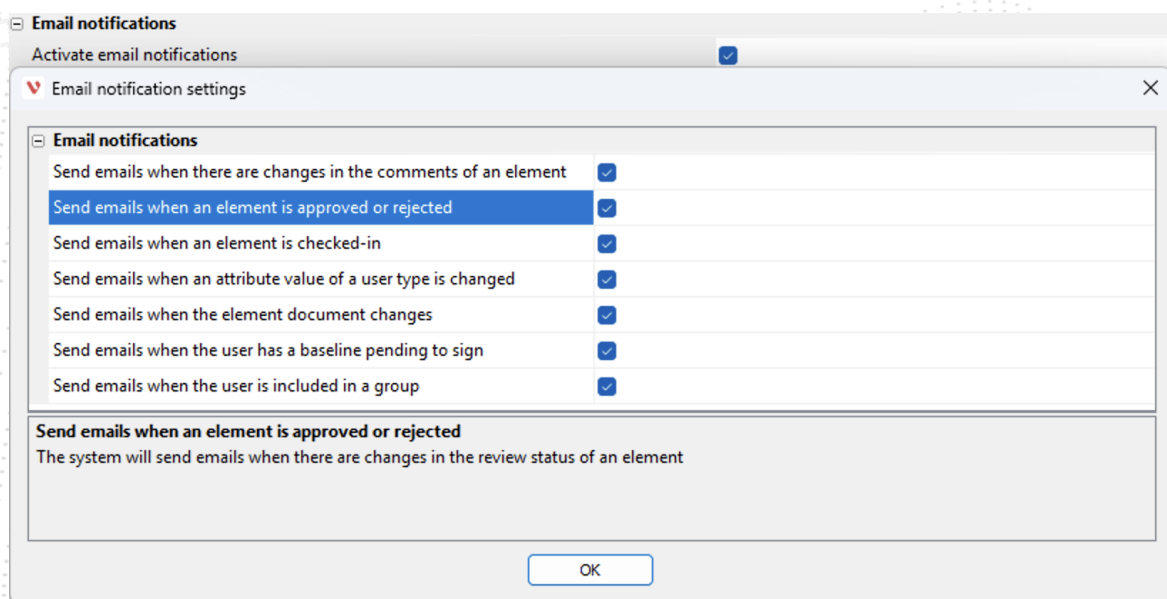
This feature can be enabled for individual users directly from the Administration Center.



2.5.2 Email notifications

The new email notification feature in Visure 8 allows team member stay updated by receiving email notifications whenever there are new users in the repository, they are assigned to projects, there changes to items they own, or they subscribe to or if they are assigned to items, among other notifications.

These email notifications can be configured per project in the Administration Center



2.5.3 Comments Category and Type

The review management process in Visure can be customized by customizing the values of the Comments Type and Category attributes

Comments	
Types	Comment Question Suggestion Defect
Categories	Functional Non functional