



# View Editor User's Guide

[View Editor User's Guide](#) for View Editor Version 3.

**View Editor (VE)** is designed to enable users to interact with SysML models within a web-based environment. It implements the MMS REST API to provide a web environment to create, read, and update model elements, including Documents and Views.

## MMS

MMS is a version control system for structured data. It exposes model information through RESTful web services that can be used for CRUD operations, branching, and tagging of the model repository.

See [About View Editor](#) for more information.

This guide is designed to introduce the various features available in View Editors.

*Please check your specific project modeling practices with regard to tasks, groups, etc.*

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## Additional Resources

- Alfresco: [Alfresco Cover Page](#)
- System Engineering Modeling using MagicDraw and the Model Development Kit: [MagicDraw Cover Page](#) , [MDK User's Guide](#) , and [MagicDraw FAQ](#) .

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# 1 About View Editor

View Editor is a web-based environment designed to interact with a systems model. VE is a document oriented view of the model elements, which are stored in MMS. Its purpose is to provide real and true data through the web so that users may interact with actual model elements without having to open a modeling software (e.g. MagicDraw). This allows users of all levels, including non-modelers, to view or modify live documents and values of a singular source of truth.

Below is some (but not all) context about what a user sees upon first entering View Editor, specifically when viewing a document:

- [Navigation Bar Capabilities](#) - Shows context of center pane, allows management of branches and tags, provides global search and provides external links
- [Left Pane Capabilities](#) - Shows context of the center pane, specifically the hierarchies and editing capabilities
- [Center Pane Capabilities](#) - Shows Document/View content, provides editing capabilities (tracks local changes for bulk commits) also provides export options
- [Right Pane Capabilities](#) - Shows detailed element information, provides editing capabilities, element history/changes and shows jobs running

The screenshot illustrates the View Editor interface with three main panes:

- LEFT PANE:** Displays a hierarchical tree structure under "DOCLIB". The root node is "View Editor User's Guide (DRAFT)". Sub-nodes include "1 About View Editor", "2 Navigation and Viewing Options", "3 Panes", "4 Documents and Views", "5 Real-Time Update (STOMP)", "6 Search", "7 Branches and Tags", and "8 Advanced Features".
- CENTER PANE:** Contains the document content for "View Editor User's Guide (DRAFT)". It features a "Table of Contents" section with links to various sections like "About View Editor", "Navigation and Viewing Options", etc. Below the TOC is a "Additional Resources" section with links to deployment resources and a "Release Companion".
- RIGHT PANE:** Titled "EDIT ELEMENT", it shows details for the selected document. It includes fields for "Edits" (1), "Class: View Editor User", and a preview area titled "View Editor User's". It also displays the "Last Modification" date (11/3/17 10:33 AM by docgen) and a "Documentation" toolbar with various editing icons.

## 2 Navigation and Viewing Options

View Editor offers many ways to interact with model elements. The following subviews are provided to demonstrate various interactive capabilities.

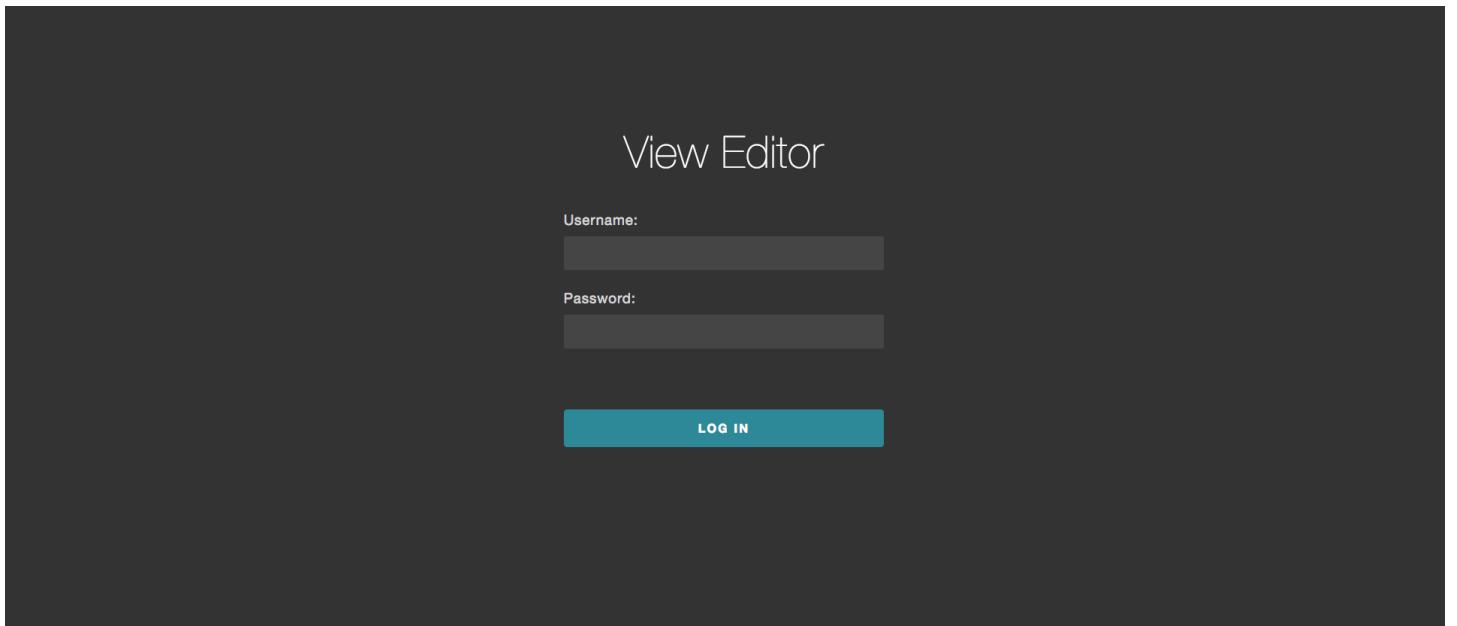
### 2.1 Navigate To A Project

**Projects** are a collection of Documents and Views and the elements related to them.

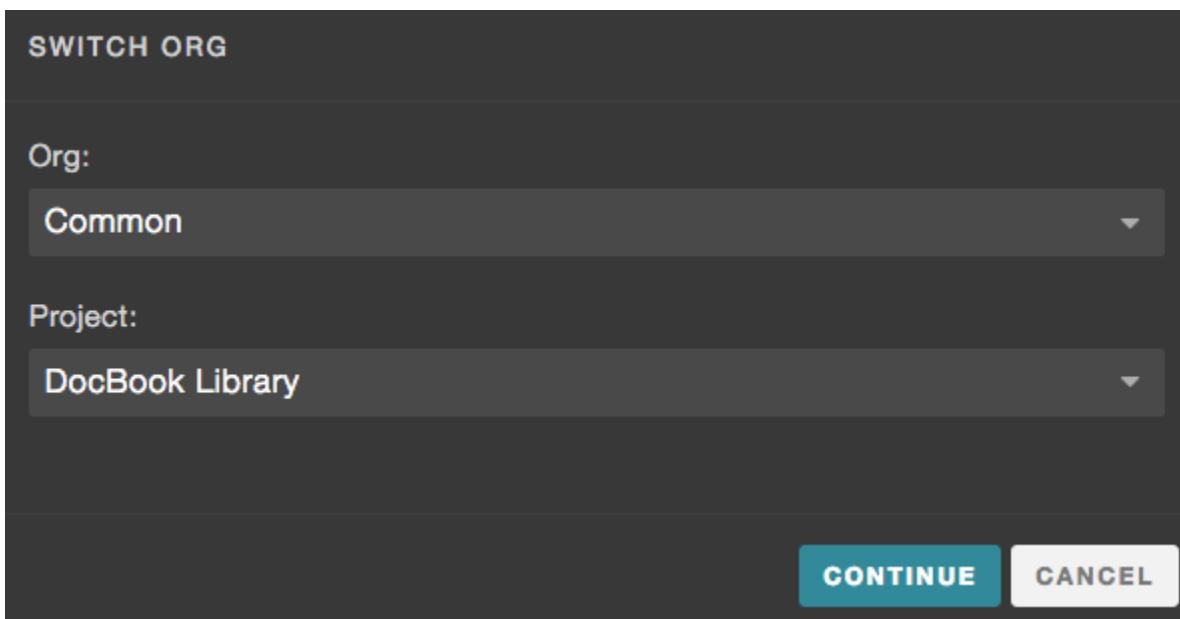
**Orgs** are a configuration-managed collection of projects.

After logging in, you would be prompted to select your Org. and Project.

Login page:



Choose Org. and Project:



You have the option to switch organization and project from the navigation bar:

VE Common Switch Org

Project: DocBook Library

Search selected project

Branch: master

Type here to filter items in the l

0 Comments

## DocBook Library Cover Page

Click arrow to expand the directory to view documents that exists on the currently selected project:

VE Common Switch Org

Project: DocBook Library

Search selected project

Branch: master

Type here to filter items in the l

0 Comments

## DocBook Library Cover Page

Groups are specified by a folder icon and used for document organization in View Editor.

VE testorg Switch Org

Project: TMT-test

Search selected project

Branch: master

Type here to filter items in the l

0 Comments

## TMT-test Cover Page

(No Text)

## 2.2 Navigate to Document

**Groups/directories** are composed of **Documents**.

Choose the desired organization and project:

VE testorg Switch Org

Project: TMT-test

Search selected project

Branch: master

SWITCH ORG

Org: testorg

Project: TMT-test

CONTINUE CANCEL

Select the document you wish to view on the left pane:

Type here to filter items in the tree

Project: TMT-test

0 Comments

Observatory Acquisition Workflow OPEN DOCUMENT

TMT-AOS  
Observatory Acquisition V  
Observatory Acquisitio  
TMT-APS-SE

Branch: master

Click on the document title or "Open Document" button on the center pane to view all document content:

Type here to filter items in the tree

Project: TMT-test

0 Comments

Observatory Acquisition Workflow OPEN DOCUMENT

TMT-AOS  
Observatory Acquisition V  
Observatory Acquisitio  
TMT-APS-SE

Branch: master

Use the icons in the breadcrumb to navigate back to the project hierarchy: View Editor > View Editor User's Guide

Documents are the key to interacting with the system model. More information can be found at: [Create/Delete A Document](#).

Once a user has navigated to a group, the user will be able to see the different documents associated with the chosen sites. To see the first page, known as "view", a user simply has to select the document by clicking the title in the group hierarchy tree. A user can then navigate to the documents to view and edit its contents.

## 2.3 Navigate Through Views

**Views** are individual parts of a full document. They can be specialized to have their own content and layout.

Use the **left pane** to select the view.

Use ( ) to collapse, ( ) to expand the folders. (see [Navigate to Document](#) )

Type here to filter items in the tree

Project: TMT-test

0 Comments

Observatory Acquisition Workflow OPEN DOCUMENT

TMT-AOS  
Observatory Acquisition V  
Observatory Acquisitio  
TMT-APS-SE

Branch: master

Use the **tool bar** to navigate through views.

You can use | to go to the **next** or **previous** view. (See on top right)

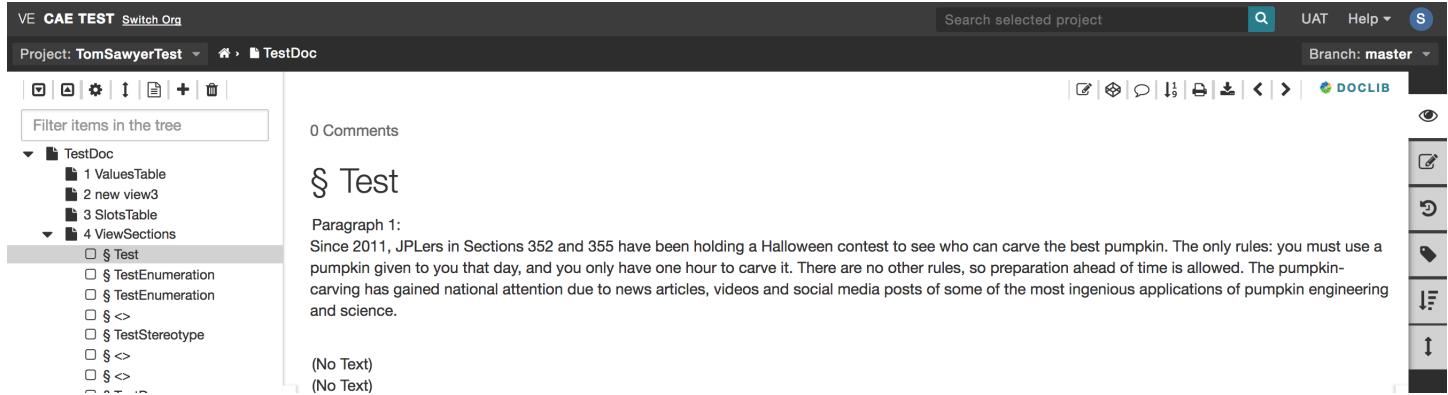
For more information on adding, editing, and saving views, refer to [Documents and Views](#).

## Navigate to Section

**Sections** are used for adding concrete organization to Views. They are similar to views in the sense that they provide a specific amount of information, are containers for presentation elements, and can be cross referenced.

Sections are indicated with the following symbol:  §

Select Section from Left Pane (Document hierarchy)



The screenshot shows the View Editor interface with the following details:

- Top Bar:** VE CAE TEST Switch Org, Search selected project, UAT, Help, Branch: master.
- Left Pane (Document hierarchy):**
  - Project: TomSawyerTest
  - File: TestDoc
  - Items listed under TestDoc:
    - 1 ValuesTable
    - 2 new view3
    - 3 SlotsTable
    - 4 ViewSections
    - § Test (selected)
    - § TestEnumeration
    - § TestEnumeration
    - § <>
    - § TestStereotype
    - § <>
    - § <>
    - ...
- Right Pane (Content Area):**
  - 0 Comments
  - Section Title:** § Test
  - Text Content:**

Paragraph 1:  
Since 2011, JPLers in Sections 352 and 355 have been holding a Halloween contest to see who can carve the best pumpkin. The only rules: you must use a pumpkin given to you that day, and you only have one hour to carve it. There are no other rules, so preparation ahead of time is allowed. The pumpkin-carving has gained national attention due to news articles, videos and social media posts of some of the most ingenious applications of pumpkin engineering and science.

(No Text)  
(No Text)

For more information on Sections, see [Add Presentation Elements](#).

## 2.4 Show Comments/Elements

### Comments:

View Editor Comments are hidden by default.

### Example:

1 Comment, Last Commented 2/21/16 11:55 AM by mpiette

Click the dialog balloon,  to display comments

( see |  |  |  |  |  |  EXPORT | < | > | on top right)

The comments will appear as follows:

I'm adding a comment here.

- mpiette

These comments are stored in the model as documentation of the view itself.

To **hide the comments**, click the dialog balloon again.

(See [Add Presentation Elements](#) for creating a comment, a type of presentation element.)

### Elements:

Click on the "Show Elements" icon  to display outlines of all presentation components.  
See [Right Pane Capabilities](#) for more information.

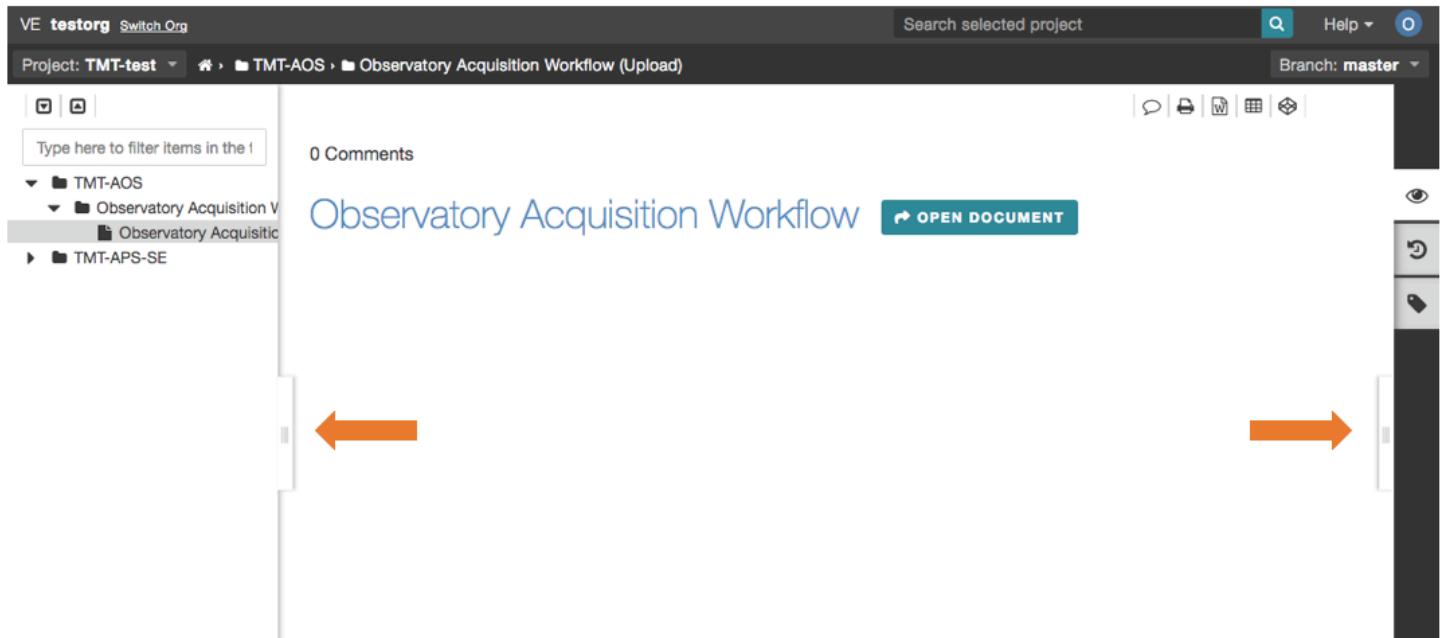
## 2.5 Show/Hide Panes

### Show/Hide Panes:



Both the Left Pane and the Right Pane can be shown/hidden with just a simple click of the **pane tab**

### Double click or Drag Panes



For more information about the Left Pane, refer to [Left Pane Capabilities](#).

For more information about the Right Pane, refer to [Right Pane Capabilities](#).

View Editor has been divided into three panes for the convenience of the user. Each pane has different capabilities and allows a user to focus on whichever pane is more useful for them at the time. Since each pane has different capabilities, by slightly editing the layout of the panes, a user can focus on whichever tools are more needed for the task at hand.

## 2.6 Navigate to Branches/Tags

Use Tasks/Tags menu to manage version controls. More information can be found in [Branches and Tags](#).

Go to "Branch: master" in top right:

VE CAE Switch Org

Project: OpenCAE > OpenCAE > 01\_CAE Technology Portfolio > View Editor > View Editor User's Guide (DRAFT)

Search selected project

UAT Help S

Branch: master

Filter items in the tree

View Editor User's Guide (DRAFT)

- 1 About View Editor
- 2 Navigation and Viewing Opt
- 3 Panes
- 4 Documents and Views
- 5 Real-Time Update (STOMP)
- 6 Search
- 7 Branches and Tags
- 8 Advanced Features

0 Comments

## Navigation and Viewing Options

View Editor offers the user many ways to interact with model elements. With these different options, come different content layouts that are accessed in certain ways. The following subviews are provided to demonstrate several different interactive options.

Manage branch dropdown menu:

https://opencae-uat.jpl.nasa.gov/alfresco/mmsapp/mms.html#/projects/PROJECT-ID 90% C Search

JPL JPL Acronyms and I... MD:UserGuide local LP JPL Directory - Acr... JS JPL Space View Editor | CAE Google Scholar

VE CAE Switch Org

Project: OpenCAE > OpenCAE > 01\_CAE Technology Portfolio > View Editor > View Editor User's Guide (DRAFT)

Search selected project

UAT Help S

Branch: master

Filter items in the tree

View Editor User's Guide (DRAFT)

- 1 About View Editor
- 2 Navigation and Viewing Opt
- 3 Panes
- 4 Documents and Views
- 5 Real-Time Update (STOMP)
- 6 Search
- 7 Branches and Tags
- 8 Advanced Features

0 Comments

## Navigation and Viewing Options

View Editor offers the user many ways to interact with model elements. With these different options, come different content layouts that are accessed in certain ways. The following subviews are provided to demonstrate several different interactive options.

**MANAGE BRANCHES/TAGS**

Filter branches/tags

Branches	Tags
doris test 2	
master	
test	
test1	

Click on "MANAGE BRANCHES/TAGS" to go to Manage Branches/Tags view where summary information of each branches/tags are displayed.

VE CAE Switch Org

Project: OpenCAE >

Search selected project

UAT Help S

[Back to Project Documents \(master\)](#)

## Manage branches/tags

Filter Tags and Branches

**BRANCHES**

- doris test 2
- master**
- test
- test1

**TAGS**

- D-1
- test past

**master**

[Project Documents](#)

**Id**: master    **Type**: Branch

**Description**

+ TAG + BRANCH

You can create a new tag/branch from this page. Simply click on the "+TAG"/"+BRANCHES", and follow the prompt:

The screenshot shows the View Editor interface with the 'Project: OpenCAE' selected. On the left, there's a sidebar with 'Filter Tags and Branches' and a tree view showing branches like 'doris test 2', 'master', 'test', and 'test1'. Below that is a 'TAGS' section with 'D-1' and 'test past'. The main area has a modal titled 'CREATE NEW TAG' with tabs for 'CREATE NEW TAG' and 'Tags are read only'. It contains fields for 'Name' (with placeholder 'Type a name for your tag here'), 'Description' (empty), and 'Point in History' with options for 'Most Recent' (selected) or 'Specify a timestamp' (with a date input field showing '2017-11-02T17:58:43.625'). At the bottom are 'CREATE' and 'CANCEL' buttons.

From a high level perspective, View Editor Tasks are similar to Git branches. They create a separate workspace built upon a duplication of data at a specified time. View Editor Tags are "snapshots" of all the data on View Editor at specified times. More information can be found in [Branches and Tags](#).

## 2.7 Help Dropdown Menu

The *help dropdown menu* on top right of every page in View Editor is to provide the user with some useful resources. The resources are as follows:

The screenshot shows the 'View Editor User's Guide (DRAFT)' page. The left sidebar shows a tree structure with chapters like 'About View Editor', 'Navigation and Viewing Options', 'Panes', 'Documents and Views', 'Real-Time Update (STOM)', 'Search', 'Branches and Tags', and 'Advanced Features'. The main content area displays the guide's welcome message and a note about specific project modeling practices. A 'Keyboard Shortcuts' dropdown menu is open on the right, listing 'View Editor Help', 'Report Issue', and 'About View Editor'. The top navigation bar includes 'Project: OpenCAE', 'Search selected project', 'UAT', 'Help', and a user status dropdown.

- **Keyboard Shortcuts** - Provides a list of keyboard shortcuts for interacting with View Editor, including minimizing messages and toggling editing.
- **View Editor Help** - Link to this User's Guide.
- **Report Issue** - Navigates to a page of resources for the system that includes MagicDraw, View Editor, MMS, and Alfresco
- **Feedback** - Navigates to [JIRA Cover Page](#) where users can ask questions or report issues while using any aspect of the system.

You can log out from the *user log in status dropdown*, located next to the help dropdown.

VE CAE Switch Org

Search selected project

UAT Help S

Logged in as sawada

Log Out

0 Comments

## View Editor User's Guide (DRAFT)

Welcome to the [View Editor User's Guide \(DRAFT\)](#) for View Editor Version 2.4.0. View Editor is a web-based environment designed to interact with a MagicDraw system model through the [MMS Cover Page](#) server. See [About View Editor](#) for more information. This guide is designed to introduce the user to the various features of View Editor using a combination of tutorials, written explanations, and screencasts.

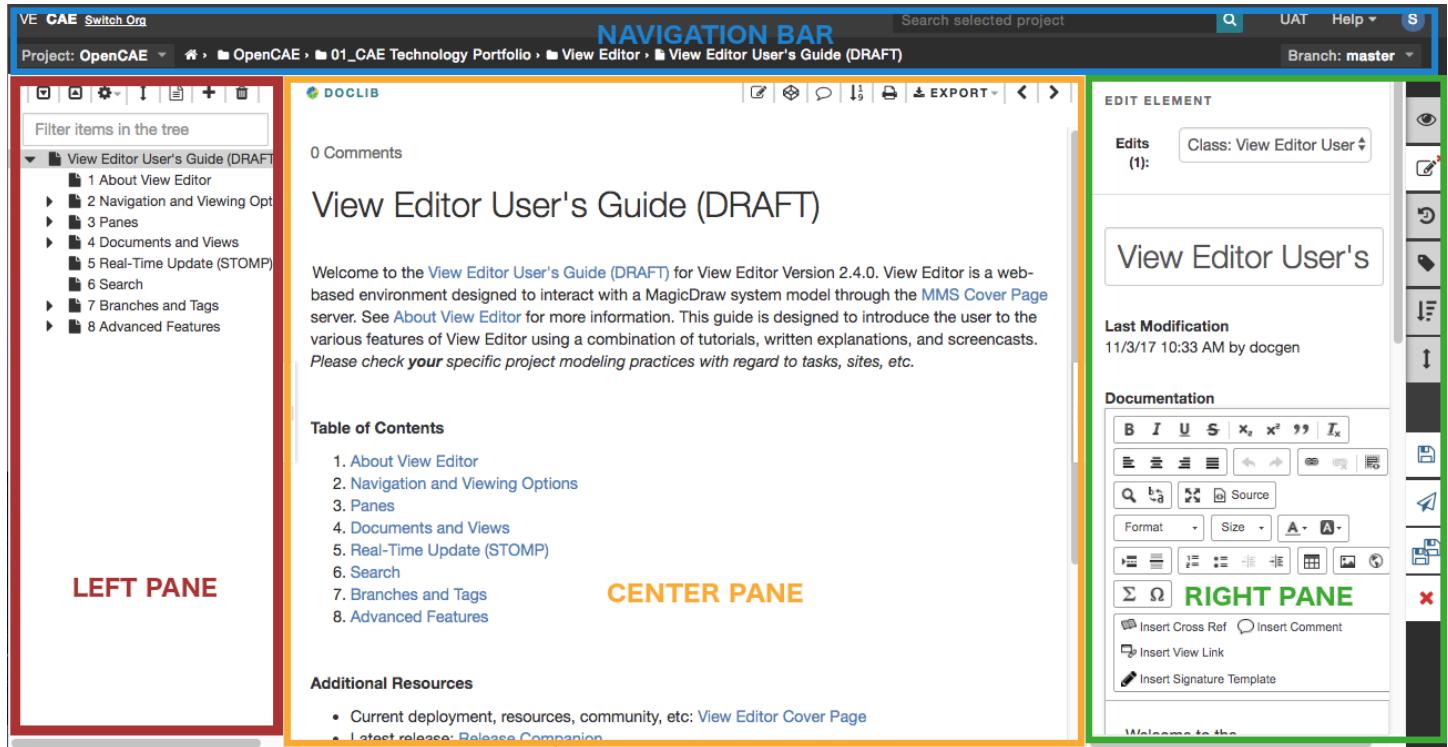
*Please check your specific project modeling practices with regard to tasks, sites, etc.*

**Logout** - Logout of View Editor

## 3 Panes

View Editor is split up into 3 panes.

- [Navigation Bar Capabilities](#) - Shows context of center pane, allows management of tasks and tags, provides global search, and navigates to chosen external links
- [Left Pane Capabilities](#) - Shows the view hierarchies and context of the center pane
- [Center Pane Capabilities](#) - Shows Document/View content, provides editing capabilities, including options for saving locally
- [Right Pane Capabilities](#) - Shows detailed information of the selected element, element histories, and provides editing capabilities

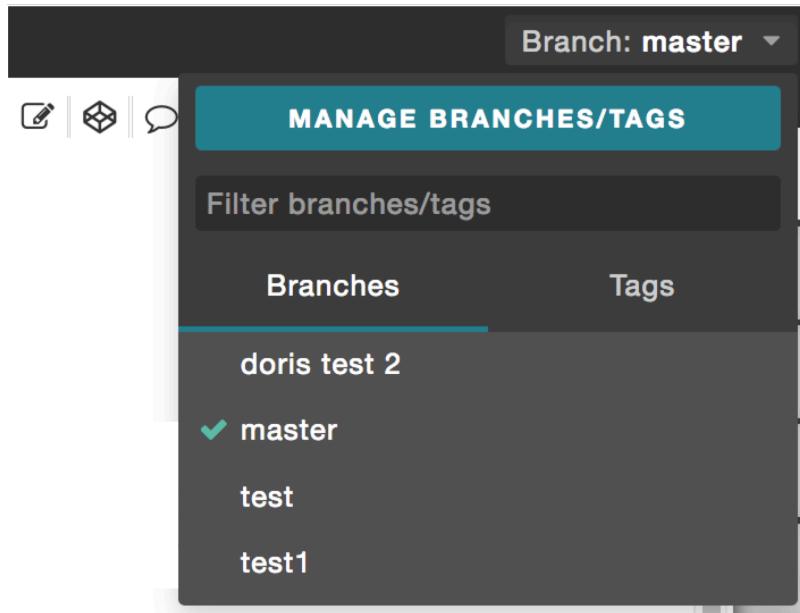


### 3.1 Navigation Bar Capabilities

Below are the capabilities for the Navigation Bar [Help, Project, Org dropdowns]:

1. Current Context of Panes
  - Breadcrumbs: The user can easily see the current location. The user can also use the breadcrumb to [Navigate To A Project](#) and to [Navigate to Document](#) backwards.
2. [Branches and Tags](#): The user can easily see what current Task or Tag that View Editor is displaying

Project: OpenCAE > OpenCAE > 01\_CAE Technology Portfolio > View Editor > View Editor User's Guide (DRAFT)



3. [Search](#) - View Editor provides searching capabilities for documents and elements on the selected reference branch and its latest tag
4. [Help Dropdown Menu](#) - View Editor provides the user with some outside and useful resources

## 3.2 Left Pane Capabilities

The **Left Pane** displays the hierarchy of groups, documents, and their owning views when a project is selected. When a document is selected, it displays the view hierarchy of the document .

### Various Left Pane Contexts:

- **Groups and Documents** - The default CAE home page view that allows interaction with groups and documents. For more information, refer to [Navigate To A Project](#) and [Create/Delete A Document](#)
- **Views in a Document** - Lets you work within a document to view and modify Views.

Below are instructions showing how to use the Left Pane's tools, specifically while in a document.

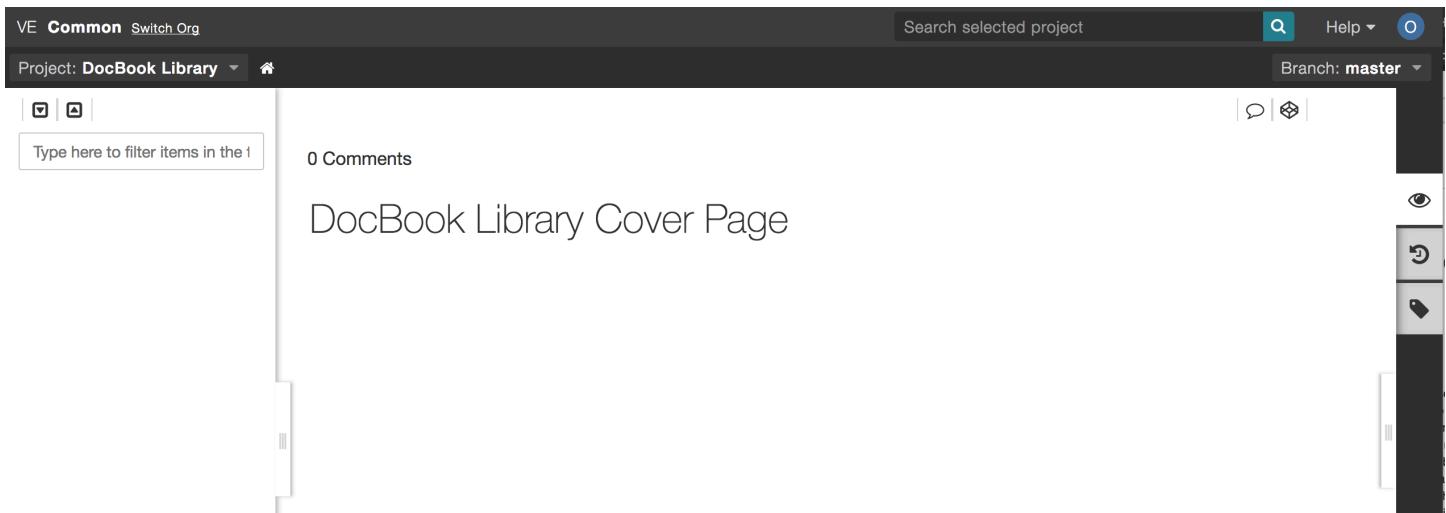
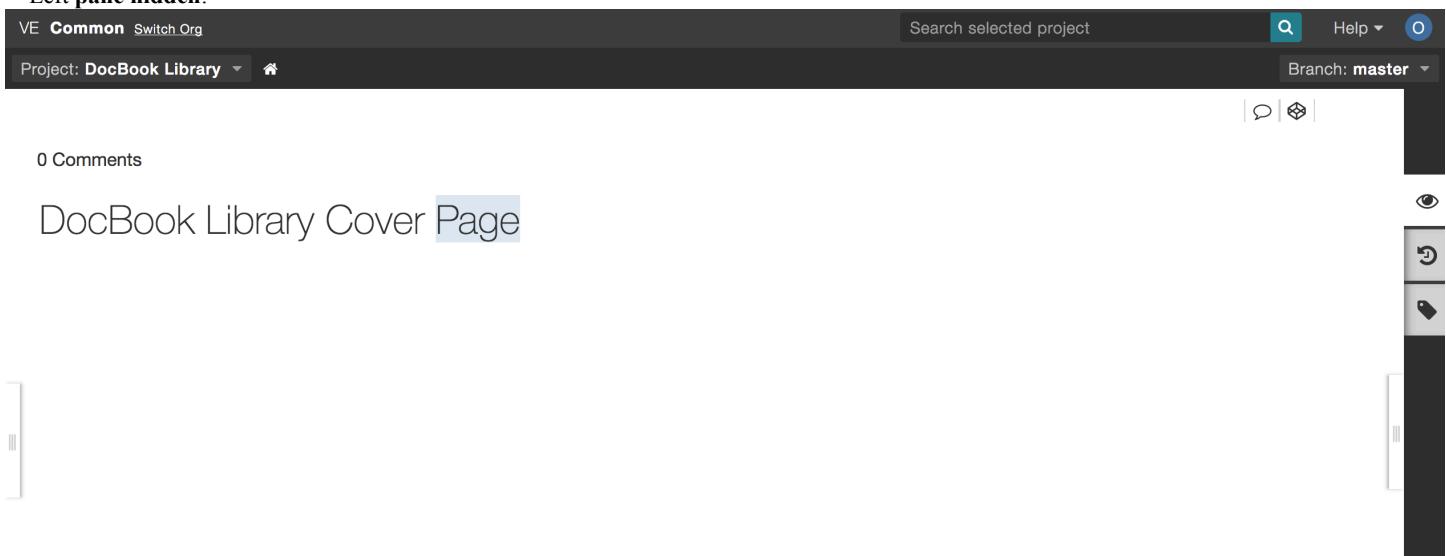
### The instruction includes:

- Show/Hide Left Pane
- Filter
- Expand All
- Collapse All
- View Mode
- Reorder views
- View full document
- Add View
- Delete View

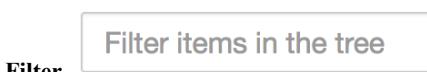
#### Show/Hide Left Pane

The Left Pane can be "docked" or "hidden" in the browser.

**Left pane shown:**

**Left pane hidden:**

To toggle the two states, simply double click on the left pane tab or drag in and out the pane.



Filtering the tree allows you to see only the desired views based on the *name* of the view or document

You can then navigate to any of the filtered views. To view the full document again, simply delete anything typed in the filter field. When this is done, all the views in the document show as if the user used the "Expand All" function (see above).



Lets you view all the subviews and sections of views within a document. The user can then individually collapse views as they please.

To expand all, click on the down arrow icon located on top of the left pane.



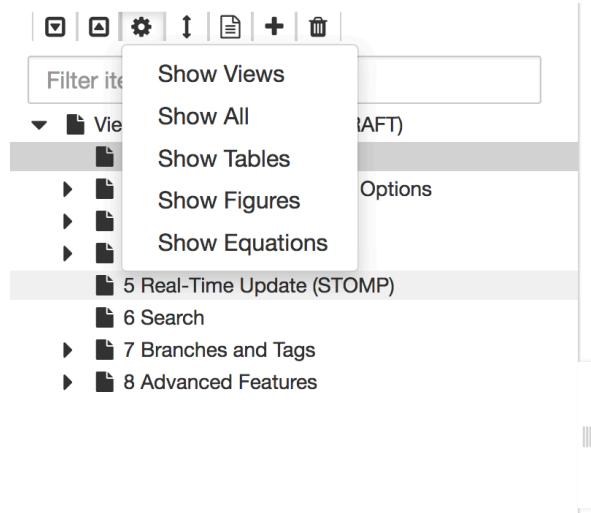
Lets you collapse all views so that no views are visible in the Left Pane. You can then individually expand views level by level as they

please.

To collapse all, click on the up arrow icon located on top of the left pane.

### Display Options

To toggle various display options, click on the gear icon, and select the desired option from the dropdown menu.



### Reorder views

You can easily reorder the views in the document, refer to [Reorder Views/Elements](#).

### View Full Document

- This functionality lets you view an entire document in the center pane by "stitching" the views all together
- You can either scroll down in the center pane or select a view in the Left Pane to navigate to a certain part of the document
- You can edit views when viewing the full document both in the Center Pane and the Right Pane
- Depending on the size of the document/views, it may take some time for the document to load.

Steps:

1. Click "Full Document" 
2. Scroll down slowly through the document to show all content of document
3. Edit a section while viewing Full Document

### Add View

To add a view to an existing document, refer to [Add/Delete Views](#).

### Delete View

To delete a view from an existing document, refer to [Add/Delete Views](#).

## 3.3 Right Pane Capabilities

The Right Pane (a.k.a. Inspector Pane) lets you inspect the element that is currently selected.

## Notes:

The Enable Edits will not appear for users who do not have the correct permissions. Consult with your project to obtain the correct permissions for editing.

The Right Pane tools are shown on the right and described below with (cross reference) links to more information.

1. [Preview Element](#) : Provides more information about a selected element, and it also provides the same editing capabilities as the Center Pane and similar, but not quite the same, saving options. Refer to [Edit and Save Elements](#) for more information
2. [Element History](#) : Lets you inspect an element at different saving times in its history
3. [Jobs](#) : Run a document generation on current document to update any structural content changes from the model
4. [Tags](#) : Provides a list of existing tags, their time stamps, and a hyperlink to the snapshot of the documents.
5. [Reorder View](#): A user can reorder the Presentation Elements within a View. Refer to [Reorder Views/Elements](#) for more information

The screenshot shows the 'View Editor User's Guide (DRAFT)' document in the View Editor. The left pane displays the document content, which includes a title, last modification details, and documentation. The right pane features a vertical toolbar with several icons: eye (Preview), edit (Edit), refresh (History), tag (Jobs), list (Tags), and a double-headed arrow (Reorder View). The 'PREVIEW ELEMENT' tab is active, showing the preview section with the title and last modification information.

### 3.3.1 Preview Element

"Preview Element" tab displays the following field information of the selected element:

- **Name**
- **Last Modification** - What date/time and by whom
- **Documentation** - clicking on the </> icon next to DOCUMENTATION header will toggle the display to show raw html
- **Metatype** - implicitly applied class/stereotype
- **Location** - where the actual element is stored in the associated model in terms of package hierarchy
- **ID** - the unique element ID. If it begins with "MMS", then it's a View Editor created element. If it begins with anything else (usually "18\_0\_..."), it was created in the MagicDraw model
- **Workspace** - The name of the Workspace (or Task) that the selected element is currently being viewed on

You may also see element specific information (e.g. value of the properties), depending on the type of element.

Branch: master

Edits (1): Class: Getting Started

## Getting Started

Last Modification  
7/10/17 8:15 PM by [redacted]

Documentation [🔗](#)

Type  
Class

Metatypes  
view

Location /OpenCAE/Data/OpenCAE/01\_CAE Technology  
Portfolio/Views/3D Evolution/3D Evolution  
FAQ/FAQ/Getting Started

ID  
MMS\_1491858986468\_997db288-d69a-4a73-bb5d-5b90ea5831cc

Branch/Tag  
master

Project  
PROJECT-  
ID\_10\_15\_15\_1\_41\_52\_PM\_5b84f7be\_1506a83  
819c\_\_6bc6

Formatted Modified Time  
2017-07-10T20:15:04.975-0700

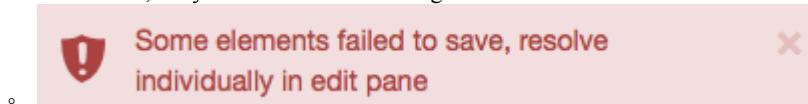
Commit  
7dd4d0de-e88a-429e-a0c5-7532dc28e0ad

### 3.3.2 Edit and Save Elements

Right Pane lets you edit the elements (refer to [Add Presentation Elements](#)) that is currently selected in the Center Pane. It also provides "Save All" option for any editing contents.

- **Various "Save" options**
  1. lets you save the editing content of a single editor
  2. lets you save the editing content and continue editing
  3. lets you save the editing content of multiple editors
  4. Auto Save ( See [Autosave to the browser's localStorage](#) )
- **Multiple Elements - Failed to Save All**

- When trying to Save All, the elements may have some conflicts that require more attention before saving.
- In this case, you will see the following error



### 3.3.3 Element History

The **Element History** tab allows you to view list of existing versions, and to go back to a specific version of the project.

You can look for an older version of the project from the Right Pane.

The Element History tab can display the same basic attributes offered by the [Preview Element](#) tool.

Every time you generate a tag for a project, a time stamp is added. The drop down menu displays the list of versions as follows:

The screenshot shows the 'ELEMENT HISTORY' tool. On the left, a dropdown menu is open, showing a list of versions:

- Latest -- docgen - 11/3/17 10:33 AM
- Admin - 8/29/17 3:58 PM
- admin - 7/10/17 4:34 PM
- Admin - 7/10/17 4:20 PM

Below the dropdown, it says 'Last Modification' and '11/3/17 10:33 AM by docgen'. To the right, there is a vertical sidebar with several icons: eye, pencil, circular arrow, tag, downward arrow, and upward arrow.

By default, this tool shows the element at the latest save point.

By checking the "Compare versions" checkbox in the right pane, It lets you compare different versions.

**ELEMENT HISTORY**

Compare versions

Admin - 7/10/17 8:15 PM

Filter history

- ✓ Latest -- Admin - 7/10/17 8:15 PM
- admin - 7/10/17 4:34 PM
- Admin - 7/10/17 4:20 PM

7/10/17 8:15 PM by Admin

**Documentation </>**

**Type**  
Class

**Metatypes**  
view

**Location**

/OpenCAE/Data/OpenCAE/01\_CAE Technology  
Portfolio/Views/3D Evolution/3D Evolution  
FAQ/FAQ/Getting Started

### 3.3.4 Tags

Tags are snapshots of projects that have been permanently captured with a unique timestamp.

They let you save the content of the selected project at any specified time. Once saved, they become read-only. The rationale is to allow you to freeze the content and store it at a specific time. Such tagged content (a version) can be referenced as the source of truth at a later time.

# Tags

Type here to filter tags

Name	Time
OpenCAE	10/17/17 10:48
D-2	AM
D-1	9/22/17 1:46 PM

See [Branches and Tags](#) for more information.

### 3.3.5 Jobs

The job pane allows the user to trigger a job such as **document generation** for the current document.

Various types of jobs can be ran in the background, using this functionality.

Currently supported jobs ( last modified: 11/16/2017 ):

- *DocGen View Generation*
- *ViewEditor Generate Views*

#### Notes:

This functionality will encompass running any type of analysis in the future.

Edit permission on the document is required to run the job (*collaborator* role or higher in Alfresco).

Any jobs that are currently ran in the background would be displayed as follows:

Name	Status
<b>View Editor User's Guide (DRAFT)_job</b>	<b>Build 1</b> Created 11/3/17 10:31 AM ... in progress

Once a user clicks on "RUN JOB", a job is started and you will see the job status on the pane, this will be updated as the job go through the stages of "**Queued**", "**Running**", "**Completed**", or "**Failed**".

Each job will have a log associated with it. The log will indicate whether the job actually succeeded or failed, and in the absence of such indication, it can be assumed that it failed.

Note: PMA is not ready for public use.

Users can disable the jobs pane by commenting out the following from toolbar.controller.js

```
tbApi.addButton(UxService.getToolbarButton("jobs"));
```

## 3.4 Center Pane Capabilities

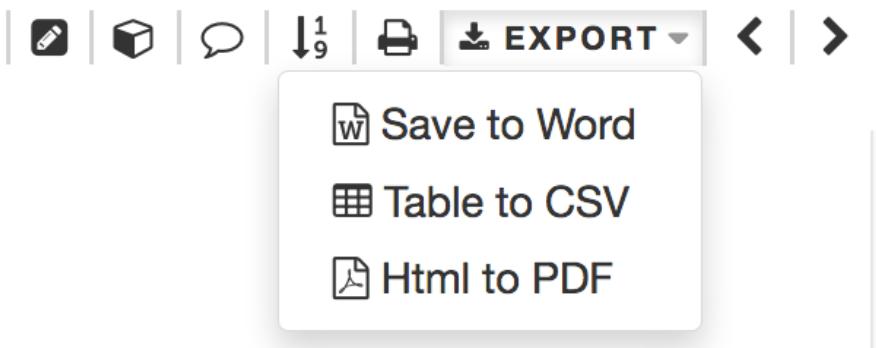
The Center Pane lets you edit the view contents.

Exceptions:



1. The *Enable Edits* button will not appear for users who do not have the correct permissions. Consult with your project to obtain the correct permissions for editing.
2. Cover Pages currently do not have the ability to export to PDF.

The Center Pane tools are shown here and described below from left to right:



- **DOCLIB** : Navigates to the Alfresco dashboard of the currently selected group/document. The DOCLIB icon will only appear when a user is viewing a Cover Page or a document.
- **Enable Edits** : A user can enable edits in order to make changes to a view. Refer to [Edit A Presentation Element](#) for more information. A user must have the collaborator role set in Alfresco in order to have access to edit.
- **Show Comments** : Comments are hidden by default. Refer to [Show Comments/Elements](#) for more information.

- Refer to "[Save As](#)" for more information on the following options:
  - **Print** : Print a physical copy of a View or Document
  - **Save to Word** : Save a View or Document as a local Word Document
  - **Table to CSV** : Save any and all tables found in a View or Document as separate CSV files
  - **HTML to PDF** : Save a View or Document as a PDF file
- **Show Elements** : Presentation Elements are hidden by default. Refer to [Show Comments/Elements](#) for more information.
- **Refresh Figure Numbering** : Table, Figure, Equation presentation elements and their references in the center pane will be updated to include numbering information.
- Refer to [Navigate Through Views](#) for the following options:
  - **Previous** : Navigate to the previous View
  - **Next** : Navigate to the next View
- ADD Presentation Elements

**Note:** See the section [Save As](#) for more on print, PDF & MS Word conversions.

## Adding Presentation Elements from center pane

Enable Edits by clicking on .

Select the desired type:



Add a name, and click on "create":

The screenshot shows a modal dialog box titled 'ADD SECTION'. At the top, there are two buttons: 'Create New' (highlighted with a blue underline) and 'Search for existing'. Below this is a 'Name:' label followed by a text input field containing the placeholder 'Type a name for your Section here'. At the bottom right of the dialog are two buttons: 'CREATE' (in a teal box) and 'CANCEL'.

**Add (Presentation) Element:** Views are constructed with the use of Presentation Elements. There are different types of Presentation Elements.

Refer to [Add Presentation Elements](#) for more information.

## 4 Documents and Views

The following subviews provide backgrounds and demonstrations of how to create, edit, and save View Editor Documents and Views.

### 4.1 Create/Delete A Document

A **Document** is composed of Views (see [Add/Delete Views](#) ), presentation elements (see [Add Presentation Elements](#) ), model elements, etc.

To see how a user can sync the new document to MMS, refer to [Update from MMS](#) .



**To create a new document**, go to the project home, and click on the plus button on the left pane. Add a name, and click on "create" button on the "CREATE DOCUMENT" dialogue box.

**To delete a document**, select the document you wish to delete, and click on the delete button . Note that deleting a view on View Editor will **not** delete the View from the model nor from MMS. To delete a view permanently, delete it from the model **and** then commit that delete to MMS.

### 4.2 Add/Delete Views

Views are subsections of a document.

It can hold pictures, diagrams, or textual information to describe ideas and objects.

Views can be added to a document in three different ways:

1. Add a New View
2. Add a Subview
3. Add an Existing View

#### Add a New View

Select the document (the root on the left pane). Click on the plus button pointed by the orange arrow below:

The screenshot shows the View Editor interface with the following details:

- Toolbar:** Includes icons for file operations (New, Open, Save, Print, etc.), search, and help.
- Project Bar:** Shows "Project: OpenCAE" and "Branch: master".
- Left Pane (Document Tree):** Displays a hierarchical tree structure of the "View Editor User's Guide (DRAFT)" document. The root node has an orange arrow pointing to its plus sign icon. Other nodes include "About View Editor", "Navigation and Viewing Options", "Panes", "Documents and Views", "Real-Time Update (STOMP)", "Search", "Branches and Tags", and "Advanced Features".
- Right Pane (Content Area):** Shows the "View Editor User's Guide (DRAFT)" page with a title, introduction, and a "Table of Contents" section listing "About View Editor", "Navigation and Viewing Options", and "Panes".
- Bottom Right:** A vertical toolbar with various icons for document management.

Type in a name, and click on the "CREATE" button.

**ADD VIEW**

Create New Search for existing

Name:

CREATE CANCEL

## Add a Subview

Select the view under which you want to nest the subview:

0 Comments

## 3.3.1 Preview Element

By using "Preview Element", a user can gather more information about any element selected in the Center Pane. The following information is revealed when previewing a model element:

- Name
- Last Modification - What date/time and by whom
- Documentation - clicking on the </> icon next to DOCUMENTATION header will toggle the display to show raw html
- Metatype

Location where the actual element is stored in the associated model in terms of package hierarchy.

Create the "plus" button to create a nested view:

0 Comments

## 3.3.1 Preview Element

By using "Preview Element", a user can gather more information about any element selected in the Center Pane. The following information is revealed when previewing a model element:

- Name
- Last Modification - What date/time and by whom
- Documentation - clicking on the </> icon next to DOCUMENTATION header will toggle the display to show raw html
- Metatype

A nested view is created:

0 Comments

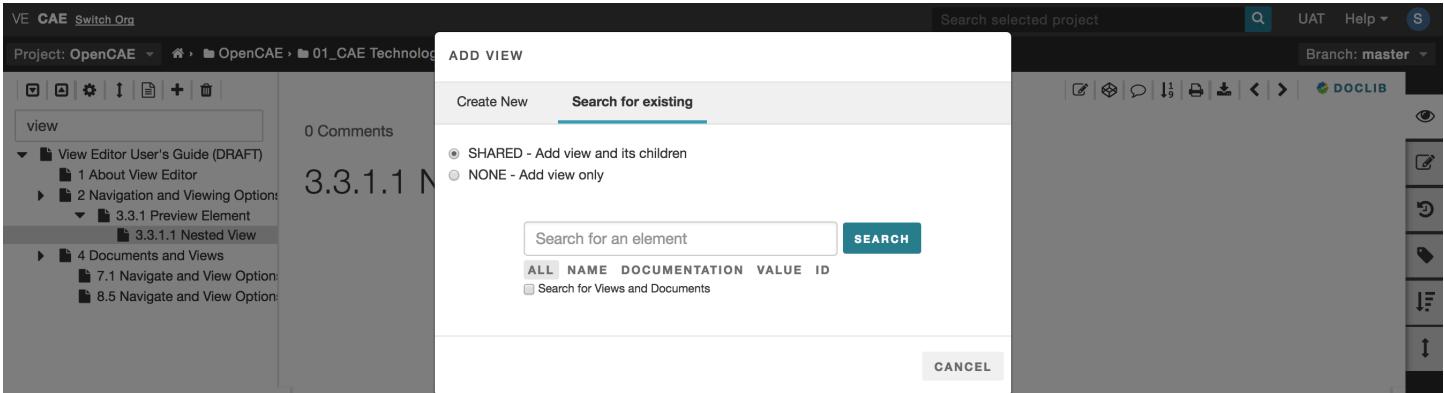
## 3.3.1.1 Nested View

## Add an Existing View

To add an existing view to another document, select a document or view to which you want to nest the existing view under, and click on the "plus"

button.

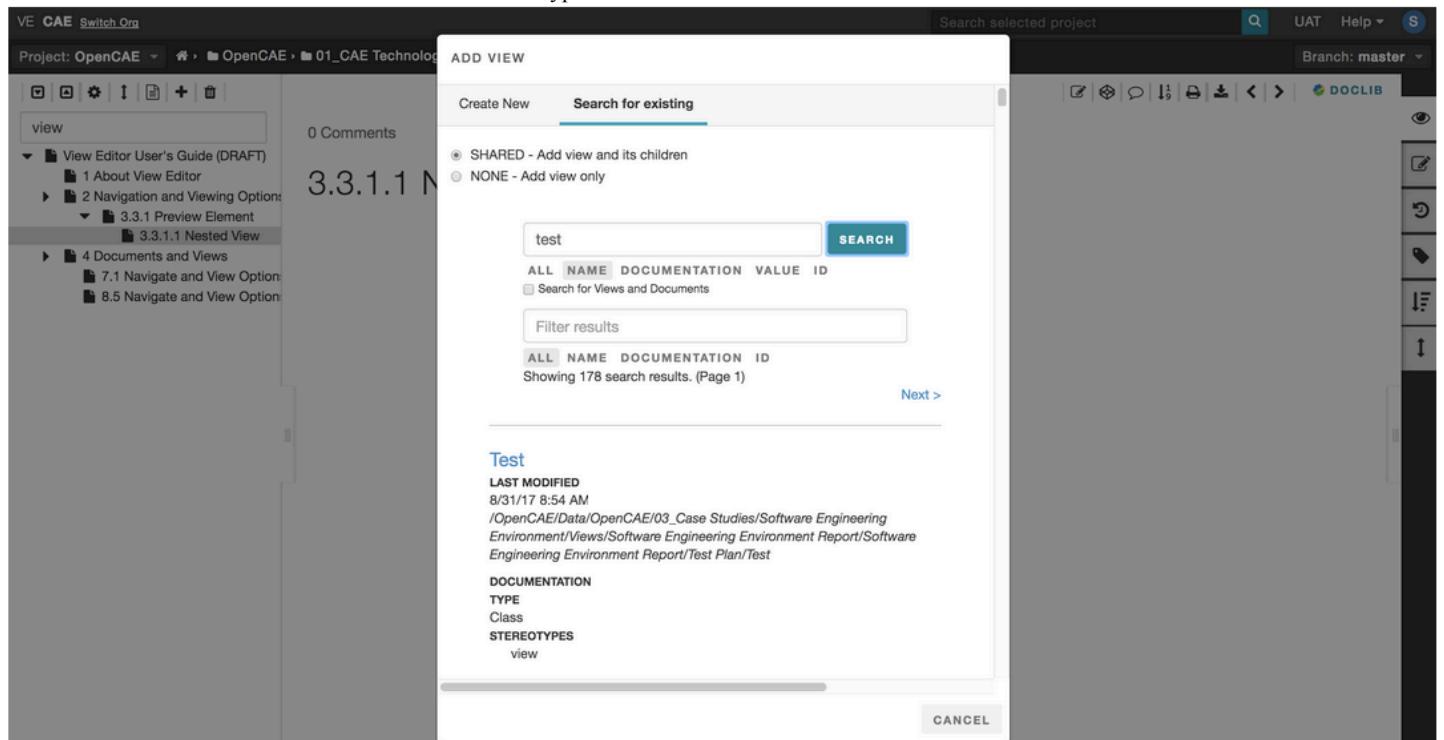
On the pop-up dialogue, click on the "search for existing" tab:



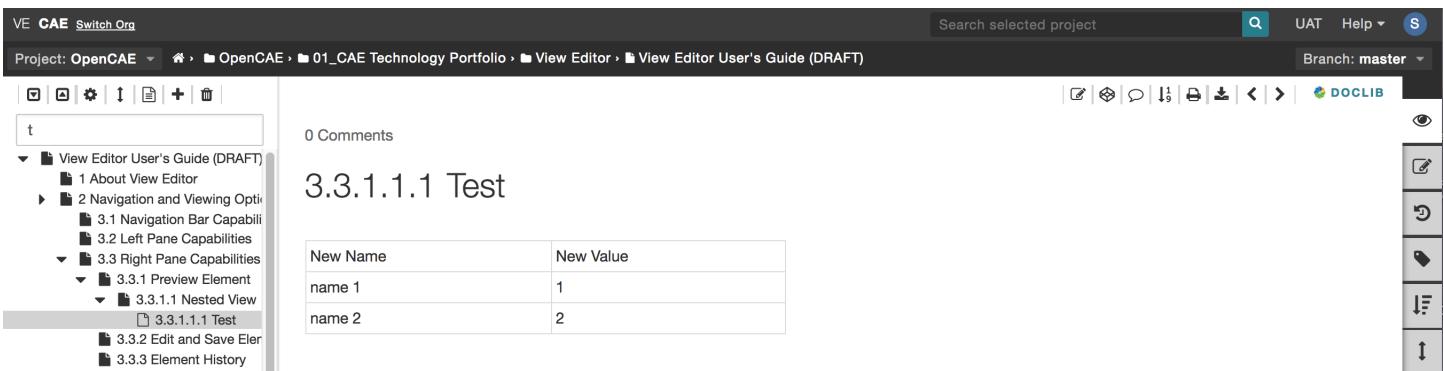
Select "SHARED" if you want to show the view/document and its children. Select "NONE" if you want to show only the view/document.

Select the desired search constraints: ALL, NAME, DOCUMENTATION, VALUE, or ID.

Select the returned view element. Click on the returned hyper link.



The existing view has been embedded under another view:



You can edit this view object from the view that was just nested or from the original view. The *single source of truth* principle is maintained.

Note: The original view will NOT be deleted upon the deletion of this view.

## Delete a View

A user can delete any existing view by selecting the view on the left pane, and clicking on the "delete" button  from a document.

Note that deleting a view on View Editor will **not** delete the View from the model nor from MMS.

To delete a view permanently, delete it from the model **and** then commit that delete to MMS.

Upon deletion, the browser redirects the user to the top of the document.

## 4.3 Edit Views

This section focuses on the **editing aspects** that View Editor offers including the following capabilities:

- High level document editing
- Full text editing
- Adding special elements (images, videos, links, etc)
- Specifying element properties
- Using cross references for "source of truth" accuracy

For more information regarding Presentation Elements as they appear in the MagicDraw model, please consult the [Presentation Element Instances](#) view.

### 4.3.1 Add Presentation Elements

**Presentation elements (PE)** are key components in the interaction between View Editor and the system model. They can be thought of as small, labeled containers that hold the information displayed in Views.

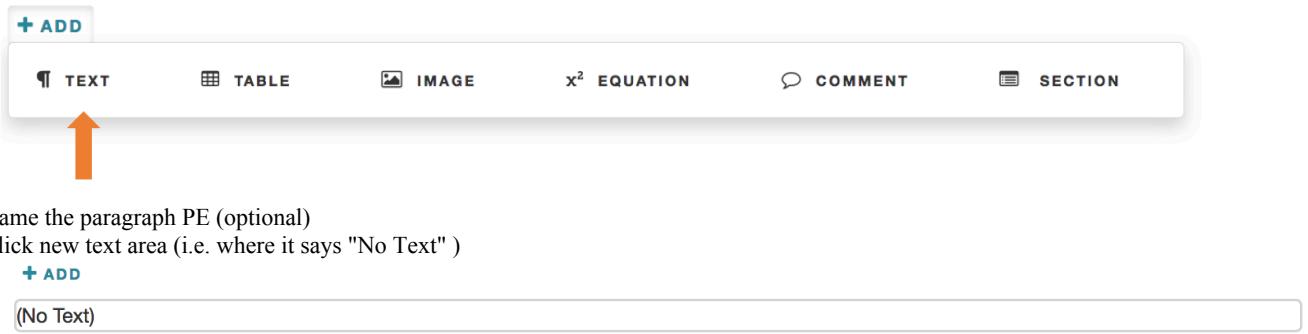
View Links allow you to cross reference an existing PE inside another PE. See the section, [View Link](#), for more detail.

The following demonstrates how to add and use various kinds of presentation elements to edit View content.

#### Add Text

The default PE for new Documents/Views is the text box. This will add a paragraph PE.

1. Enable edit mode 
2. Click  symbol in the center pane
3. Click "TEXT"

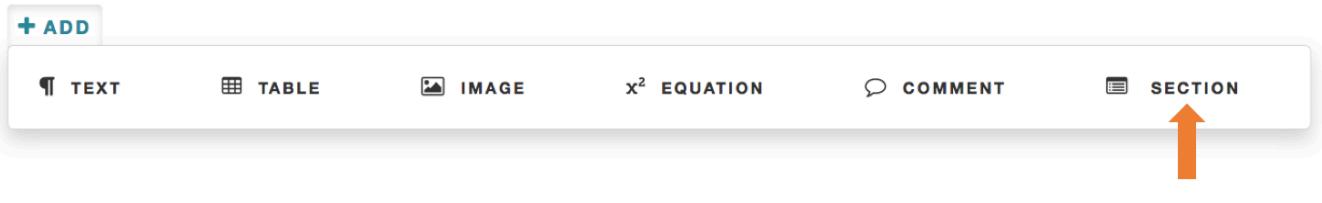


4. Name the paragraph PE (optional)
5. Click new text area (i.e. where it says "No Text")
6. Add content

## Add Section

Sections are used for adding concrete organization to views. They are similar to views in the sense that they provide a specific amount of information. They are also containers for presentation elements, and can be cross referenced.

1. Enable edit mode 
2. Click  symbol in the center pane
3. Click " SECTION "



4. Name the section PE (optional)
5. Click new section area (i.e. where it displays the PE name )

New Section



6. Add content. You can nest other PEs to the section PE.

## Add Comment

You can insert comments to all documents and views. Comments are saved in the model and are by default hidden from the view. See [Show Comments/Elements](#) for more information.

## Add Table

1. You can add a table PE. Adding a separate table PE adds an element of organization (my naming and separating it from text) to the content. It also lets you cross reference the content directly.

1. Enable edit mode 
2. Click  symbol in the center pane.



3. Click " SECTION "
4. Name the section PE (optional)
5. Click new section area (i.e. where it displays the PE name )



(No Table)

6. Add content. You can nest other PEs to the section PE

## Add Figure and Videos

A user can add figures, such as images or videos, in an image PE.

1. Enable edit mode 

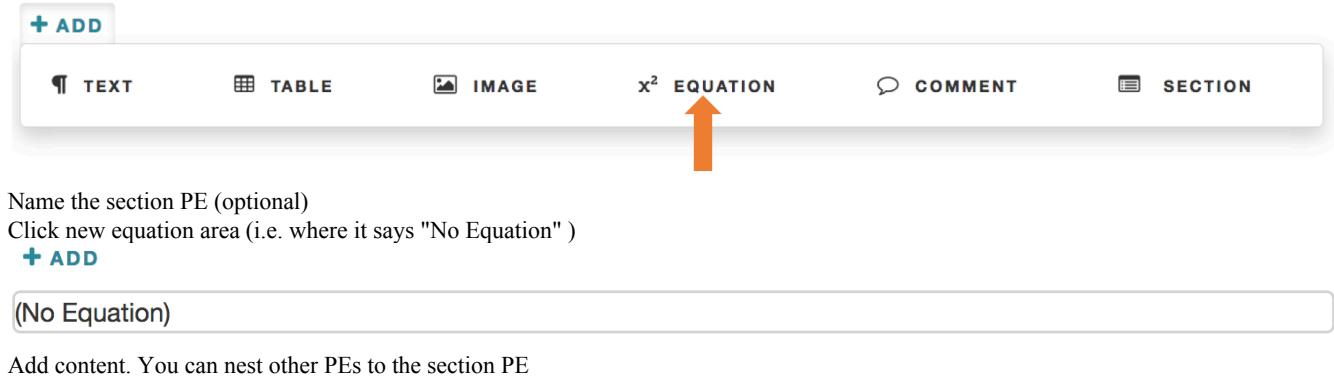
2. Click  symbol in the center pane.



## Add Equation

A user can add an equatino PE.

1. Enable edit mode 
2. Click  symbol in the center pane.
3. Click "X<sup>2</sup> EQUATION"



4. Name the section PE (optional)
5. Click new equation area (i.e. where it says "No Equation")

## View Link

View Links can be inserted to your view to reference an existing view to another view.

Steps:

1. Click on "Insert View Link

The screenshot shows the 'View Editor User's Guide' interface. On the left, there is a navigation tree with sections like '4.3 Add Presentation Elements', '4.4 Save As', and '7 Branches and Tags'. The main content area displays a section titled 'Create/Delete Branches and Tags'. An orange arrow points from the text 'A user can create Tasks and Tags from the Task/Tag Menu.' to the 'Task/Tag Menu' button in the toolbar above. The right side of the screen shows a preview element and a sidebar with 'Last Modification' and 'Documentation' sections.

## 2. Search for the desired PE

The screenshot shows the 'INSERT VIEW LINK' search dialog. It has a search bar with placeholder text 'Search for an element', a 'SEARCH' button, and a filter section with buttons for 'ALL', 'NAME', 'DOCUMENTATION', 'VALUE', and 'ID'. There is also a checkbox for 'Search for Views and Documents'. A 'CANCEL' button is located at the bottom right.

## 3. Click on the element for which you want to insert the line

The screenshot shows the 'INSERT VIEW LINK' search results dialog. It displays a list of search results with 99 items. The results are filtered by 'NAME', 'DOCUMENTATION', and 'ID'. A 'SEARCH' button is at the top right of the search bar. Below the search bar is a 'Filter results' input field. At the bottom, there is a 'Save As' section showing the file path '/OpenCAE/Data/OpenCAE/01\_CAE Technology Portfolio/Views/View Editor/View Editor User's Guide/Save As' and a 'DOCUMENTATION' section. A 'Next >' button is visible on the right.

## 4.3.2 Edit A Presentation Element

The following operations can be performed on views and documents:

- Edit **Style** - stylize text in a similar fashion to Microsoft Word.
- Add/edit **Links**
- **Find and Replace** - search, find, and replace a PE
- Edit **HTML source code** - edit the PE by modifying the HTML source code directly

## 4.3.3 Save Elements

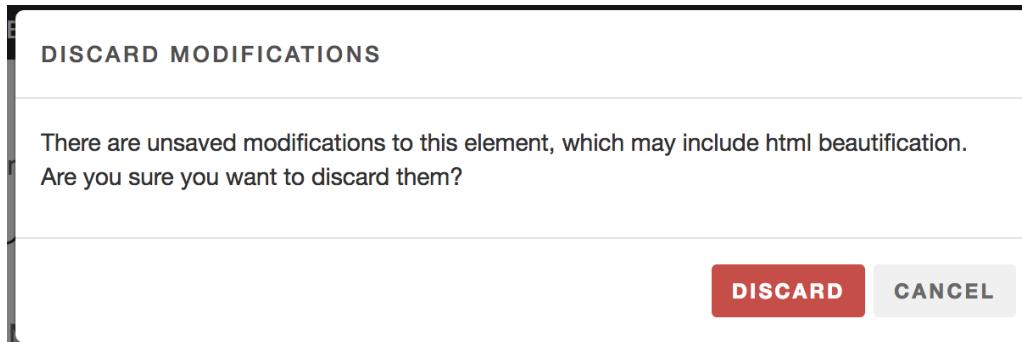
There are several saving options when editing Presentation Elements (PEs).

To learn how to save Documents and Views as PDFs, Word Documents etc., refer to [Save As](#).

### Saving elements:

- Preivew Changes
- Save (and Close)
- Save and Continue
- Auto Save ( See [Autosave to the browser's localStorage](#) )
- Cancel

**Note:** When canceling, if changes have been made, the following message will appear to warn the user that canceling changes will mean that changes will not be saved. The user would need to "Cancel" out of this message and manually save the PE if the changes were desired.



## 4.3.4 Use Cross References

**Cross References** are pointers to other sources of information, typically text or documentation. Such references can be **names**, **documentation**, or **values** of model elements, as well as other **views** and **documents**. The primary benefit of cross references is that wherever they are accessed in a Document/View, the Document/View will be automatically updated when the element is modified. This is also the direct interface for changing model elements because any change to the element cross reference will be reflected in the model itself. As you will notice throughout both this guide and [MDK User's Guide](#), there are cross references constantly being made to other views and documents.

The following guide demonstrates the different features and capabilities for cross referencing in View Editor.

### Create a Cross Reference - name, documentation, and value

- From 2.4.0 on, there is a checkbox in the cross reference popup that allows you to restrict the **editability** of the cross referenced element where you inserted it. This will only affect editing in the center pane and not in the element specification on the right pane.

### Steps:

1. Enable Edits
2. Select a Presentation Element to Edit
3. Click on **Insert Cross Ref** on the editor tool bar.

4. You can search for the existing element by the following fields:
  1. Name
  2. Documentation
  3. Value ( & Name of a different element in this case)
  4. Element ID
5. Select the element you want to cross reference.
6. Click on the item that you want to cross reference
7. You will see a blue box with the label, *cf: xxxx*, where xxxx is the name of the cross referenced object.

Text : Create/Delete Branches and Tags Documentation

A user can create Tasks and Tags from the Task/Tag Menu. They can then navigate to the perspective "Sites and Documents", shown in [\[cf: Navigate and View Options.vlink\]](#). Users can also delete selected Tasks/Tags.

• Create A Branch [\[cf:Search.name\]](#)

Click on "Manage Branches/Tags" button from the *Branch/Tags dropdown* menu on top right.

#### Editing cross referenced elements

1. Cross referenced element can come from:
  - Different part in View Editor
  - New Cross Reference
2. Bonus: Run “Update from MMS” in MagicDraw to see the changes to the elements
  - More information can be found in the description

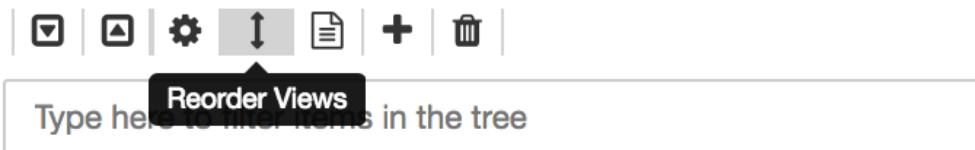
To learn more about how the edited elements are synced back into the Model, see [Update from MMS](#).

### 4.3.5 Reorder Views/Elements

You can reorder Views and Presentation Elements (PEs) to change the hierarchy of the elements.

#### Reorder Views (Enhanced)

1. Click on the "Reorder Views" button on the left pane.



- 2.
3. Drag and drop the tile to reorder views as desired.

The screenshot shows a 'REORDER CONTENTS' dialog box. On the left, there's a tree view of a document structure. In the center, a list of items is shown with blue arrows pointing to specific positions in the list, indicating where they will be inserted if dragged. The items include: → PDF export tables document (composite), 1 → 1 PDF export tables view 1 (composite), 2 → 2 PDF export tables view 2 (composite), 3 → 3 PDF export table view 3 (composite), and 4 → 4 PDF export non pe table (composite). A large orange arrow points to the second item in the list.

Note: The blue position guide arrows let you know where the view/document will be inserted as you drag a tile:

The screenshot shows the 'View Editor User's Guide' interface. On the left, a tree view shows various sections like 'View Editor User's Guide (DRAFT)', '2 Navigation and Viewing Options', and '3 Panes'. In the center, a detailed list of items is shown with a blue arrow pointing to a specific position in the list, indicating where it will be inserted if dragged. The items listed include: 3 → 3 Panes (composite), 3.2 → 3.2 Left Pane Capabilities (composite), 3.3 → 3.3 Right Pane Capabilities (composite), 3.3.1 → 3.3.1 Preview Element (composite), 2.5 → 3.3.1.1 Show/Hide Panes (composite), 3.3.1.1 → 3.3.1.2 Nested View (composite), 3.3.1.2 → 3.3.1.2.1 Test (shared), 3.3.2 → 3.3.2 Edit and Save Elements (composite), 3.3.3 → 3.3.3 Element History (composite), 3.3.4 → 3.3.4 Snapshots (composite), 3.3.5 → 3.3.5 Platform for Modeling and Analysis (PMA) Jobs (composite), 3.4 → 3.4 Center Pane Capabilities (composite), 4 → 4 Documents and Views (composite), 4.1 → 4.1 Create/Delete A Document (composite), and 4.2 → 4.2 Add/Delete Views (composite). An orange arrow points to the third item in the list.

Note: When a view that has subviews is selected to be moved, all of its subviews will move with it.

To learn about adding different types of views, refer to [Add/Delete Views](#)

#### Capabilities:

- Switch 2 views
- Move a view to become a subview
- Move a view to become a parent of another
- Change node level (depth)

#### Notes for Modelers/Developers:

Each view will have indication of which type of connection it's under (composite/shared/none), only composite/shared views will show their child views. Hence you cannot move views under a view that's connected as "none"

## Reorder Presentation Elements (PEs)

1. Click on the "Reorder Content" button on the right pane.

## REORDER CONTENTS

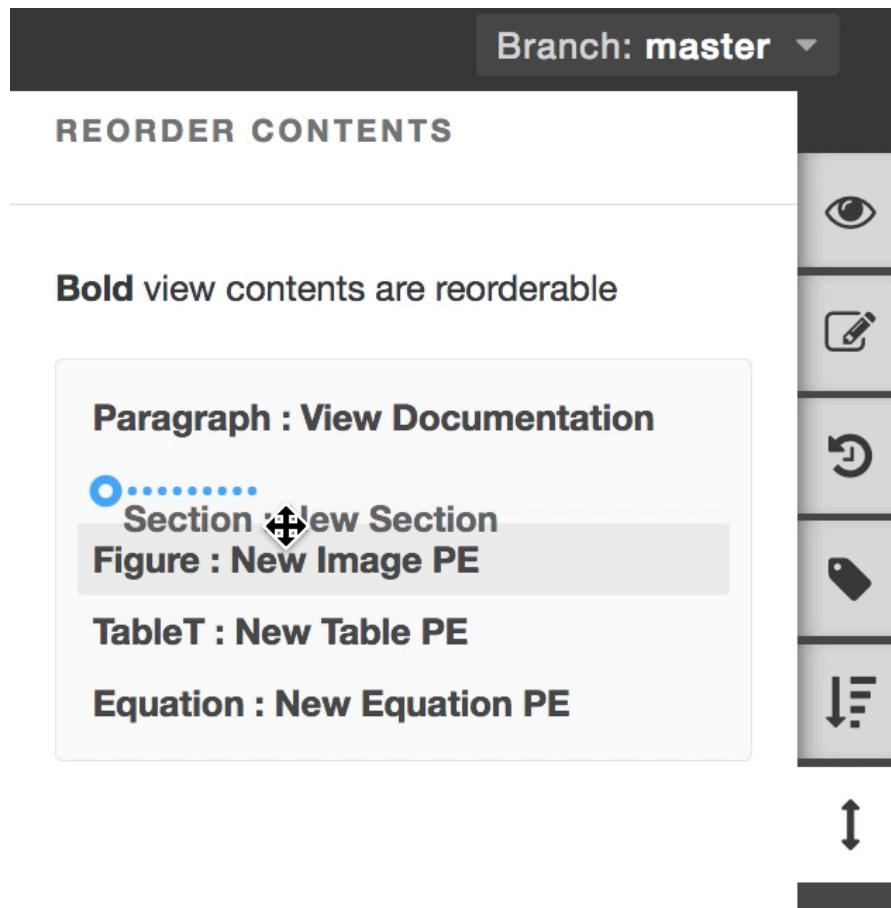
**Bold** view contents are reorderable

**Paragraph : View Documentation**  
**Section : Navigate to Section**  
**Paragraph : Navigate to Section**

Reorder Content



1. Drag and drop the tile to move the views around and reorder them as desired.
2. Drag and drop the tile to reorder views as desired.



For more information on PEs, refer to [Add Presentation Elements](#)

For more information of other tools in the Right Pane, refer to [Right Pane Capabilities](#)

## 4.4 Save As

You can save Documents and Views locally. The following guides demonstrate the options for saving Views and Documents.

Save As options include the following for both Documents and Views:

- [Print to Printer](#)
- [Generate PDF](#)
- [Save to Word Document](#)
- [Export Tables](#)

Print to Printer and Save to PDF or Word will also generate the table of contents, list of tables, list of figures, and update the numbering within the document for any links. The popup will also allow you to enter custom header and footer info, with prefilled info if it's available in the model (through the Document stereotype's docMetadata tags).

### Print to Printer

- **Print View**

1. You can physically print a selected view:

2.

1. Select the view/document you want to print out (click on "Full Document" 

if you wish to print out the entire document).



2. Click "Print"

The screenshot shows a web browser window with the URL <https://opencae-uat.jpl.nasa.gov/alfresco/>. The page title is "View Editor User's Guide (DRAFT)". The content includes a "Table of Contents" and "Additional Resources" section. A "Print" dialog box is open over the browser window, containing various printing options like printer selection, paper size, and orientation.

3. The print content dialogue will pop up
4. Select a printer and print

## Generate PDF

See these subsections for more information about specific generations:

1. [Generate PDF of View/Document](#)
2. [Generate PDF with Model Based Cover Page](#)

### Generate PDF of View/Document

The screenshot shows the "View Editor" interface. At the top, there is a toolbar with various icons. Below the toolbar, the text "Save View as PDF" is followed by a PDF icon. A context menu is open from the "Export" button, listing three options: "Save to Word", "Table to CSV", and "Html to PDF".

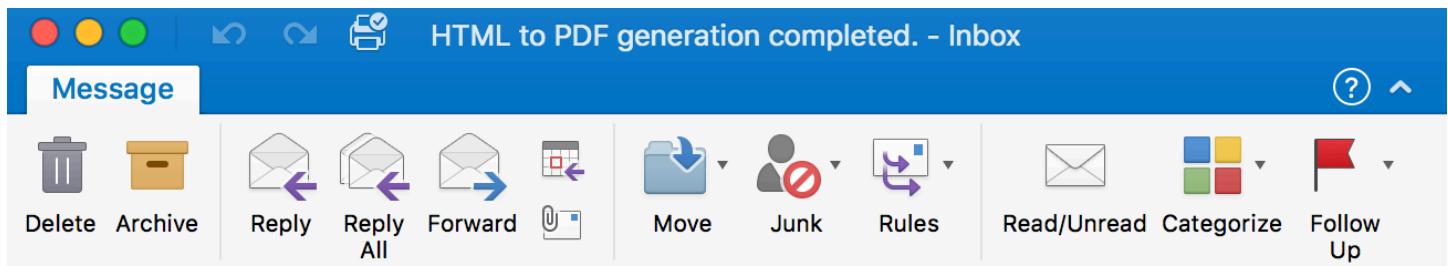
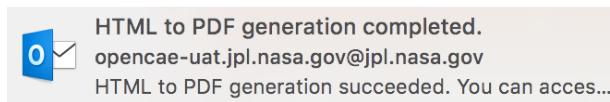
You can convert the document/view to a PDF file and save.

## Step By Step Instructions:

- Select the view you want to convert
- Click " Export " button
- Select " Html to PDF "
- If not in " Full View " mode, a dialogue window will pop up, asking if you want to export from Full View.
- Generate PDF Document dialogue will pop up:
  - Choose whether or not to create list of tables and figures
    - If you wish to generate list of tables and figures based on the presentation element type, check *Use HTML for List of Tables and Figures (will not include equations and may differ from web numbering)* option
  - Check landscape option if necessary
- Click on " Generate PDF "



- You will receive an email with the link to the document/view, converted PDF



**HTML to PDF generation completed.**



opencae-uat.jpl.nasa.gov@jpl.nasa.gov <opencae-uat.jpl.nasa.gov@jpl.nasa.gov>  
Monday, November 13, 2017 at 8:24 AM

HTML to PDF generation succeeded.

You can access the PDF file at <https://opencae-uat.jpl.nasa.gov/share/page/document-details?nodeRef=workspace://SpacesStore/43bf985e-3ba6-40c4-a62a-e24bba025e57>

Follow the link in the email message to view the PDF document, stored in Alfresco. To download, click on the Download button. To view in the browser, click on the "View In Browser".

The screenshot shows a document details interface. At the top, there's a navigation bar with 'Repository > User Homes > MMS\_1508962997796\_a983d01b-3d16-489e-a355-c381f991fa35\_1510590265330'. Below it is a file preview for 'MMS\_1508962997796\_a983d01b-3d16-489e-a355-c381f991fa35\_111317824am.pdf' version 1.0, with a 'Download' button. The main area shows a PDF preview titled 'PDF export figures document'. On the right, a sidebar titled 'Document Actions' lists various options like 'View In Browser' (highlighted with an orange arrow), 'Edit in Alfresco', 'Edit in Microsoft Office™', etc. An orange arrow also points upwards from the bottom of the sidebar towards the top right corner of the page.

## Generate PDF with Model Based Cover Page

In certain circumstances, you may want to create a custom cover page for a chosen document. The cover page is identified as the first View and has the Metatype of "Document" (highlighted below on the right pane). See below for the cover page of this User Guide:

The screenshot shows the 'View Editor User's Guide (DRAFT)' document. The left pane displays a tree view of the document structure, including sections like 'View Editor User's Guide (DRAFT)', 'About View Editor', 'Navigation and Viewing Options', 'Panes', and 'Table of Contents'. The right pane shows the 'PREVIEW ELEMENT' of the document, which includes the title 'View Editor User's Guide (DRAFT)', 'Last Modification' (11/16/17 6:51 AM), and 'Documentation' (a detailed welcome message). A vertical toolbar on the right provides various editing and navigation icons.

This can be done in two ways:

1. View Editor

1. A user would edit the cover page exactly the same way as any other view in the document.
2. A user can add Presentation Elements (including texts, pictures, etc.) and edit through normal ways.

3. This is ideal for customizing one document at a time.
2. MagicDraw
  1. A user can add a normal ViewPoint to any cover page, the same way a user would do for any view.
  2. All normal ViewPoint methods are available for the Cover Page as well.
  3. This is ideal for creating a reusable cover pages.
  4. See [Create a Reusable Cover Page](#) more information.

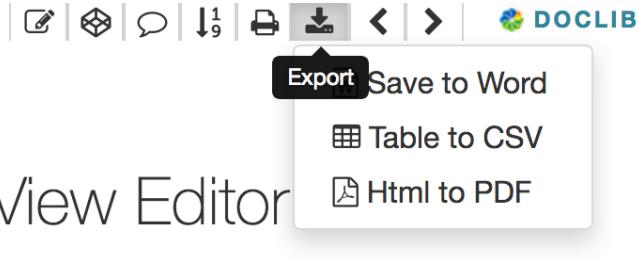
## Save to Word Document

### Save Document/View To Word

- You can save a view as Word document by copying and pasting the content from the browser's "print view" pop up window to a Word document.
- A user may need to login to Alfresco (using username and password) in order to see certain content.

#### Step-by-step instructions:

1. Click on "Export" button, and select "Save to Word" (See below)
2. The export document will display in a popup window.
3. Copy and paste the text from the window above to a Word document



### Save Document To Word

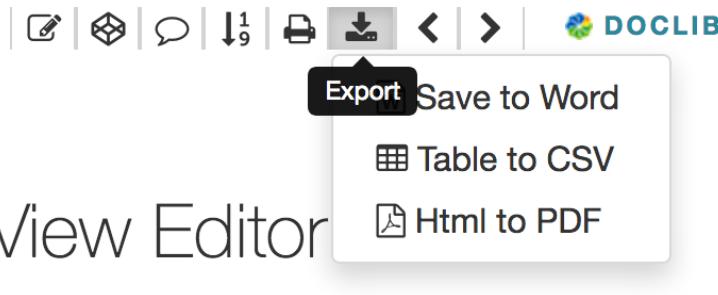
- You can save a view as Word document by copying and pasting the content from the browser's "print view" pop up window to a Word document.
- You may need to login to Alfresco (using username and password) in order to see certain content.

#### Step-by-step instructions:

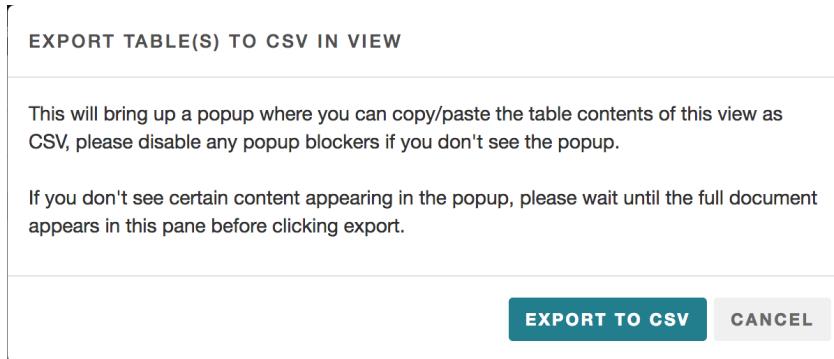
1. Click on "Export" button, and select "Save to Word" (See above)
2. Select "Go To Full Document"
3. Click "Save to Word"
4. Click "Save"
5. The export document will display in a popup window.
6. Copy and paste the text from the window above to a Word document
7. Connect to Alfresco content by using username and password
  - Repeat as needed

## Export Tables

### Tables to CSV



- Click on " Export " button, and select " Table to CSV "
- You will see the following prompt:



- Click on Export To CSV. The popup window below will display.



- Click on " Save to CSV " button to store the table in a view/document as a CSV file.

### Save all tables from document to CSV



- Go to the full document by clicking on button.
- Follow the steps above.

### Export Rapid Table

- Filter and export options are available when tables ("rapid tables") are generated through MagicDraw. In the following clip, the user began with an existing rapid table ("Community Resources" on [MagicDraw Cover Page](#)) and demonstrates how to filter the contents and export



### name and value

Name	Value
sdfsfs	
Boolean1	false
Integer	6
Real	60
String	fairing
UnlimitedNatural	22
OpaqueExpression	what
Animal	dog

the full table as CSV.

2. Learn how to create a Rapid Table in a view here: [Create and Generate a Rapid Table](#)
3. The Filter and Export icons appear (see the orange arrow in the image above):
4. You can also export a filtered table by following the same steps but not "Reset" filter

#### To Filter Table

1. Click "Filter Table" button
2. Enter desired filter and "Apply"
3. "Reset" filter

#### To Export CSV (\*can be cross referenced to "Save as" screencast )

1. Click "Export CSV" button
2. Open with default settings

## 5 Live Update (STOMP)

View Editor provides **real-time updates** to Views using the [Streaming Text Orientated Messaging Protocol](#) (STOMP) capability. This feature ensures modified contents are broadcasted to all users who accesses the same resources simultaneously

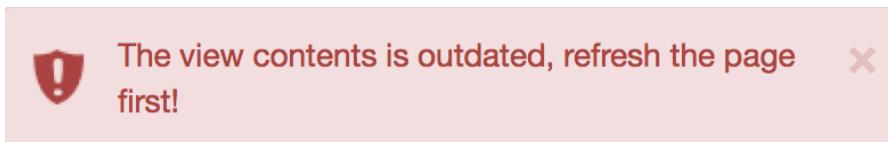
Users are alerted when:

1. The current page that is being edited has been changed somewhere else
2. There is a conflict between two saved elements
3. The page that is about to be edited is out of date

This means that View Editor is constantly interacting with the Presentation Element editors so that it can automatically update content as well as notify users when there are live changes. The STOMP features assure users that changes will not be lost, nor accidentally overwritten, and that users will be fully aware of who else is editing at the time.

### **View Contents Outdated**

- You may occasionally come across the following pop-up message on the bottom right of your browser.
- If you see this message, **save the editor content in your local machine** (i.e. copy & paste the content to [your text editor](#), and store it), then refresh the page to load the latest version of the content in your browser.



- The following scenario is an example of the sequence of events that would trigger such messages to pop-up:
  - user2 begins to edit
  - user1 saves the document above exactly at the same time
  - the page user2 is currently viewing is now out of date (compared to what is stored on the server)

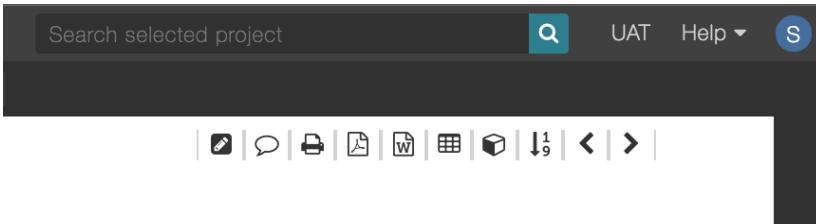
# 6 Search

## Global Search

- View Editor provides the user with the ability to run "global" searches. It allows searching for elements, views, docs, etc. on reference branch and its latest tags.
  - The biggest component of the Search feature is that the user can see the properties of a searched element. A user can also navigate to the element and the Related Document.

## Search for an element

- Enter your search keywords in the search box on top right



- See search result (matching element) appear in the center pane

A screenshot of the View Editor interface showing a search results page. The left sidebar shows a navigation tree for 'View Editor User's Guide (DRAFT)' with sections like 'About View Editor', 'Navigation and Viewing Options', 'Panes', 'Documents and Views', 'Real-Time Update (STOMP)', 'Search', 'Branches and Tags', and 'Advanced Features'. The main pane displays search results for 'View Editor User's Guide (DRAFT)'. It includes a 'navigate' search bar, a 'SEARCH' button, and two filter dropdowns for 'ALL', 'NAME', 'DOCUMENTATION', 'VALUE', and 'ID'. Below the filters is a link to 'Search for Views and Documents'. The results list shows 50 items on page 1. On the right side, there is a preview panel for the selected element, showing its properties like 'Last Modification' (11/3/17 10:33 AM by docogen) and 'Documentation' (a link to the document). There are also icons for previewing, editing, and deleting the element.

You can choose to search against element **Name**, **Documentation**, **Value**, **ID** or **All** of these.

You can enter a keyword in "**Filter results**" input box to filter through the results.

## Inside Document Search

- When trying to search for a word or sequence of characters in a View, the browser's "Find" feature
- When trying to search for a word or sequence of characters in a Document, it is suggested to
  1. View Full Document (Icon in Left Pane, see [Left Pane Capabilities](#) for more information)
  2. Use the browser's "Find" features

## 7 Branches and Tags

**Branches and Tags** provides options for controlling information on View Editor. Branches are the duplication of an object under revision control, and Tags are snapshots of the objects that you edit.

### Branches

- From a high level perspective, View Editor branches are similar to Git branches.
- They create a separate workspace built upon a duplication of data at a specified time.
- A branch contains live data; however, the live data is a duplicated copy and therefore any changes made in the Branch do not affect the live data in the "master" branch
- Branches are configured to be able to sync with Teamwork Branches of the same name. Refer to [Syncing with VE Task](#) for more information

### Tags

- View Editor Tags are "snapshots" of all the data on View Editor at specified times.
- Once created, they are purely read-only
- This offers users a chance to freeze data at specific and relevant times, including reviews

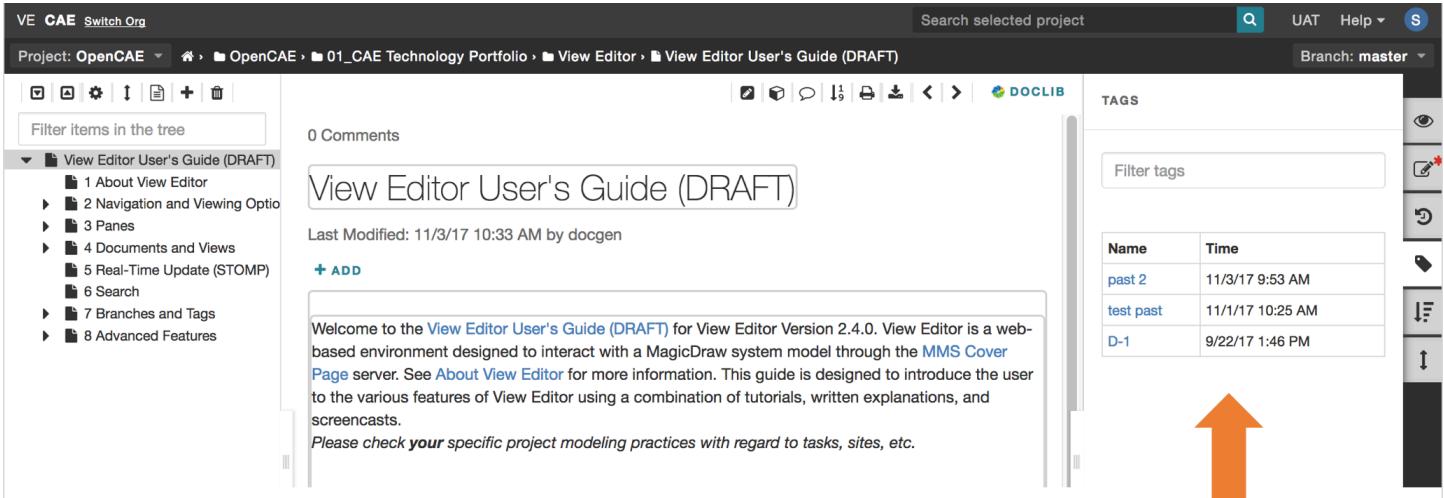
In the following subviews, users can find more information, including screencasts, about the tools that are offered by View Editor in regards to branches and tags.

### 7.1 Navigate and View Options

How to navigate through Tags on View Editor

#### From the right pane

- Select the tags tab on the right pane
- Click on the *Name* of the tag that you wish to examine.

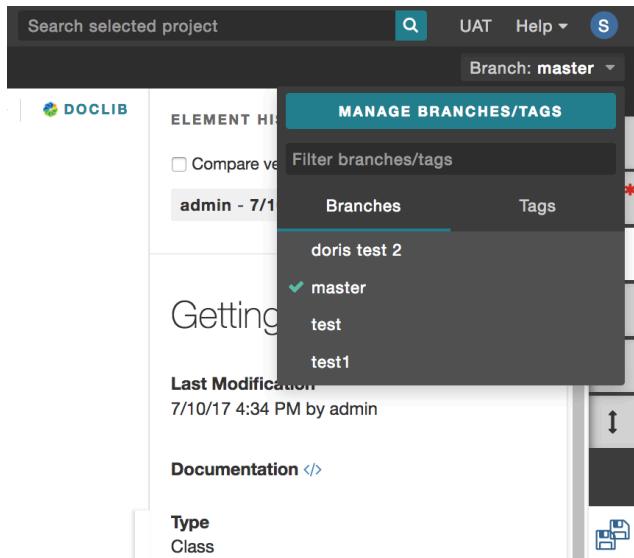


The screenshot shows the View Editor User's Guide (DRAFT) document. On the left, there's a navigation tree with sections like 'About View Editor', 'Navigation and Viewing Options', 'Panes', 'Documents and Views', 'Real-Time Update (STOMP)', 'Search', 'Branches and Tags', and 'Advanced Features'. The main content area displays the document's content, including its last modified date (11/3/17 10:33 AM by docgen). On the right, the 'TAGS' pane is open, showing a table of tags:

Name	Time
past 2	11/3/17 9:53 AM
test past	11/1/17 10:25 AM
D-1	9/22/17 1:46 PM

#### From the navigation menu under the *Branches/Tags* dropdown

Click on "Manage Branches/Tags" button from the *Branch/Tags* dropdown menu on top right:



You can inspect and edit branches and tags in this view:

## Navigating to branch/tag

- Go to *Manage Branches/Tags* from the *Branch/Tags* dropdown menu on top right
- Select the branch or tag you wish to examine on the left pane

The screenshot shows the 'Manage branches/tags' page. On the left, there's a sidebar with a search bar and a dropdown for 'Project: OpenCAE'. The main area has a title 'Manage branches/tags' and a subtitle 'Filter Tags and Branches'. A sidebar on the left lists 'BRANCHES' and 'TAGS'. The 'BRANCHES' section contains 'doris test 2', 'master', 'test' (which is highlighted with a blue background), 'test1', and 'test2'. The 'TAGS' section contains 'D-1', 'past 2', and 'test past'. On the right, a detailed view of the 'test' branch is shown. It has a green icon, the name 'test', and a 'Project Documents' link. Below that are fields for 'Id' (67aee947c74cc04eb0088140176f42a1b14e), 'Type' (Branch), 'Description', 'Time Created' (2017-10-31T10:18:57.304-0700), 'Creator' (admin), 'Modifier' (admin), and 'Parent Ref' (master). There are buttons for 'DELETE', '+ TAG', and '+ BRANCH'.

### Project Documents →

- Click on **Project Documents →** on the center pane to go to the document

From a high level perspective, View Editor Tasks are similar to Git branches. They create a separate workspace built upon a duplication of data at a specified time. View Editor Tags are "snapshots" of all the data on View Editor at specified times. More information can be found in [Branches and Tags](#).

## 7.2 Create/Delete Branches and Tags

A user can create Branches and Tags from the Manage Branches/Tags Page. From there, a user can inspect, add or delete branches. **Master** branch can not be deleted.

### Create A Branch

Click on "Manage Branches/Tags" button from the *Branch/Tag dropdown* menu on top right.

In *Manage Branches/Tags* view, click on the "+BRANCH" button:

VE CAE Switch Org      Search selected project      UAT Help S

Project: OpenCAE

[Back to Project Documents \(master\)](#)

## Manage branches/tags

Filter Tags and Branches

BRANCHES

- doris test 2
- master
- test**
- test1
- test2

TAGS

- D-1
- past 2
- test past

**test**

Project Documents →

**Id:** 67aee947c74cc04eb0088140176f42a1b14e

**Type:** Branch

**Description:**

**Time Created:** 2017-10-31T10:18:57.304-0700

**Creator:** skhudiky

**Modifier:** skhudiky

**Parent Ref:** master

Simply follow the dialogue:

VE CAE Switch Org      Search selected project      UAT Help S

Project: OpenCAE

[Back to Project Documents \(m](#)

## Manage branches

Filter Tags and Branches

BRANCHES

- doris test 2
- master**
- test
- test1

TAGS

- D-1
- test past

**CREATE NEW TAG** Tags are read only

A tag is a read-only version of your project at a specific moment in time, typically a release or review. [more](#)

**Name:**

**Description:**

**Point in History:**

Most Recent

Specify a timestamp  
(YYYY-MM-DDTHH:MM:SS)

**CREATE** **CANCEL**

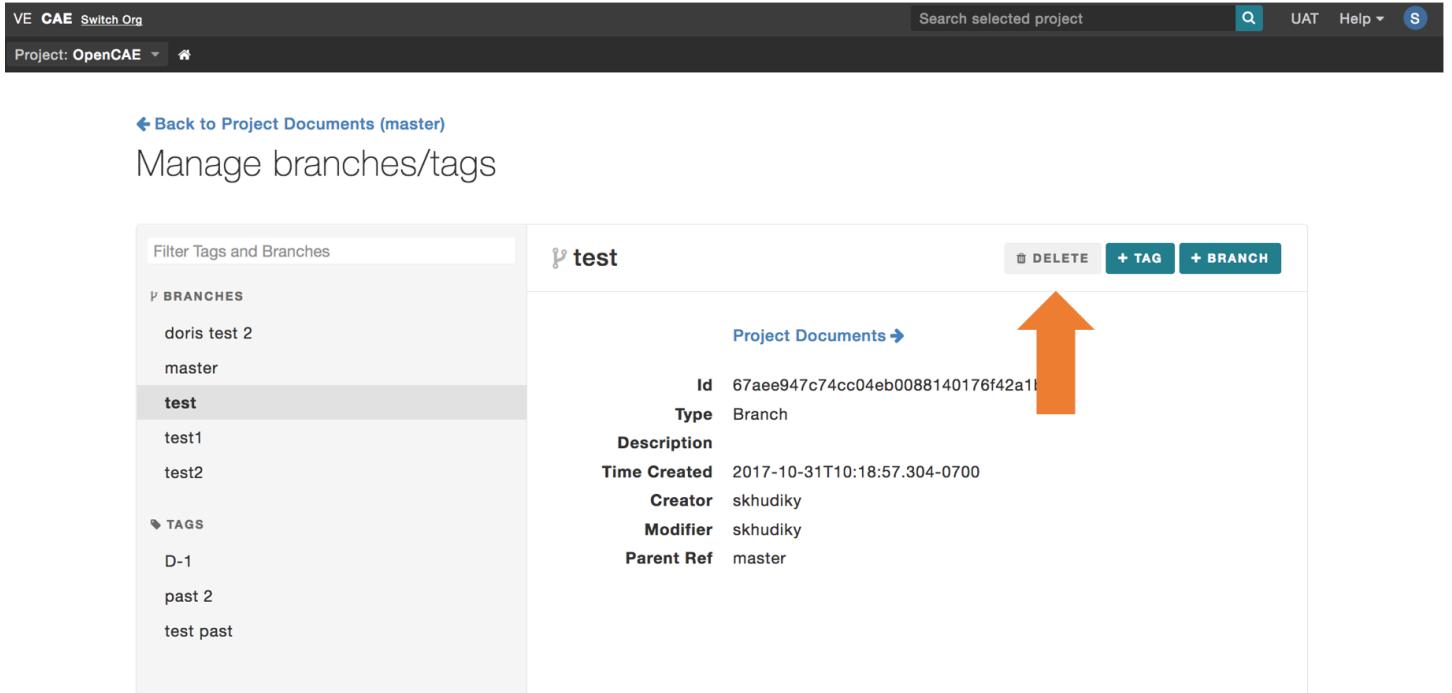
1. Name of the branch is required.
2. Set permissions by selecting from the options provided - "Read" or "Write"
  1. By default, the user who created the branch will be able to edit no matter what option is chosen.
  2. Creating a "Read" branch means that only the creator and those who are granted specific permissions can edit that branch.
  3. "Write" enables all users the ability to edit the branch

## Create A Tag

1. A user can create a tag (snapshot) the same way
2. Upon creation, the user can choose what timestamp the tag should reflect, either "Now" or "Specified"
  1. By default, "Now" is selected and the timestamp of "Now" is shown
  2. If a user chooses "Specified", then the user has to manually enter a time for the Tag to be taken.
  3. The user can specify year, hour, and minute - although there are decimal numbers shown by default, a user should delete these values since new ones will be generated upon Tag creation

## Delete Branch/Tag

- In Manage Branches/Tags view, select the branch/tag you wish to delete
- Hit "DELETE" button
- Once deleted, the branches/tags can no longer be accessed



VE CAE Switch Org

Project: OpenCAE

[Back to Project Documents \(master\)](#)

### Manage branches/tags

Filter Tags and Branches

**P BRANCHES**

- doris test 2
- master
- test**
- test1
- test2

**TAGS**

- D-1
- past 2
- test past

**test**

**Project Documents ➔**

**ID** 67aee947c74cc04eb0088140176f42a1  
**Type** Branch

**Description**

**Time Created** 2017-10-31T10:18:57.304-0700

**Creator** skhudiky

**Modifier** skhudiky

**Parent Ref** master

**DELETE** + TAG + BRANCH

## 8 Advanced Features

This section is dedicated to View Editor Advanced Features, including visualizations and custom tags.

### 8.1 D3 Visualizations

TBD

#### 8.1.1 Grouped Horizontal Bar Charts

TBD

**Properties Table**

Name	mass	power	fluffy
A	2.3	5	7
B	5	6	2
C	3	7	9

#### 8.1.2 Parallel Axis

TBD

**Properties Table**

<b>Name</b>	<b>mass</b>	<b>power</b>	<b>fluffy</b>
**threshold	1	1.5	0.5
*target	9	9	11
A	2.3	5	7
B	5	6	2
C	3	7	9

### 8.1.3 Radar Chart

TBD

## 8.2 Temporal Diff Tag

Compares a element at two different refs/commits and generates a pretty diff.

### Example Code

```
<mms-diff-attr mms-base-element-id="" (mms-compare-element-id "") mms-attr="name|doc|val"
(mms-base-project-id="" mms-compare-project-id="" mms-base-ref-id="" mms-compare-ref-id=""
mms-base-commit-id="" mms-compare-commit-id "")></mms-diff-attr>
```

## 8.3 Group Documents

The Group Documents directive generates a table used to reference all the document links within a site. This can be placed on the cover page of a group.

Here is an example of how you would define the directive to load the appropriate HTML.

```
<mms-group-docs mms-group-id="_18_0_2_bec02f9_1446154915939_541002_41021">[cf:site docs]</mms-group-docs>
```

Here is an example of document links for CAE View Editor site.

Document(s)
<a href="#">Developer Guide</a>
<a href="#">FAQ</a>
<a href="#">Release Companion</a>
<a href="#">UAT Documentation</a>
<a href="#">View Editor User's Guide</a>

## 8.4 Autosave to the browser's localStorage

This feature automatically stores unsaved contents from any of the CKEditors to the browser's localStorage except for the editor on the Comment's Modal, Proposal's Modal, Cross Reference Modal and Workspace's description. The contents will be auto saved at a configurable interval of 5 seconds and with the users' consent reloaded automatically to the editors which they belong.

These auto saved contents are automatically deleted when either one of the following conditions is met:

1. Users press on one of the following buttons on the editor itself:
  1. save
  2. save and continue
  3. cancel: when the dialog shows up and users confirm the cancellation
  4. delete: when the dialog shows up and users confirm the deletion
2. Users press on one of the following buttons on the toolbar located on the right side of the app's layout
  1. save
  2. save and continue
  3. cancel: when the dialog shows up and users confirm the cancellation
  4. saveAll: This button is a little bit special because it shows up in two different situations.
    1. Shows up after users click on the "Edit Element" button on the toolbar located on the right side of the app's layout. In this case, it will delete all the new auto saved contents related to the specific element the user is editing.
    2. Shows up after a user modifies one or more elements on the page. In this case, it will delete all the new auto saved contents corresponding to all these elements.

When saving to a full capacity browser's localStorage, all expired auto saved contents will be automatically deleted to make room for new contents.

## 9 Glossary

Term	Definition
Branch	View Editor <a href="#">branches</a> are similar to Git branches. They create a separate workspace built upon a duplication of data at a specified time.
Document	A <b>Document</b> is composed of Views (see <a href="#">Add/Delete Views</a> ), presentation elements (see <a href="#">Add Presentation Elements</a> ), model elements, etc.
Groups	Groups/directories are composed of Documents.
Job	Jobs are the unit of work executed by PMA. i.e. running a user defined analysis of a model
Org (Organization)	Orgs are a configuration-managed collection of projects.
Project	Projects are used for granting special viewing/editing permissions through Alfresco's interface.
Section	Sections are used for adding concrete organization to Views. They are similar to views in the sense that they provide a specific amount of information, are containers for presentation elements, and can be cross referenced.
Tag	<a href="#">Tags</a> are snapshots of data that have been permanently captured with a unique timestamp. It is a read only element.
Version	A version can refer to a working copy of a software, element history, model, document, view etc. at a specific point in time.
View	<a href="#">Views</a> are individual parts of a full document. They can be specialized to have their own content and layout.
Presentation Element	It can be thought of as a small, labeled container that holds the information displayed in a view. It is a key component in the interaction between View Editor and the system model.
MMS	MMS is a version control system for structured data. It exposes model information through RESTful web services that can be used for CRUD operations, branching, and tagging of the model repository.