

To Infinity and Beyond!

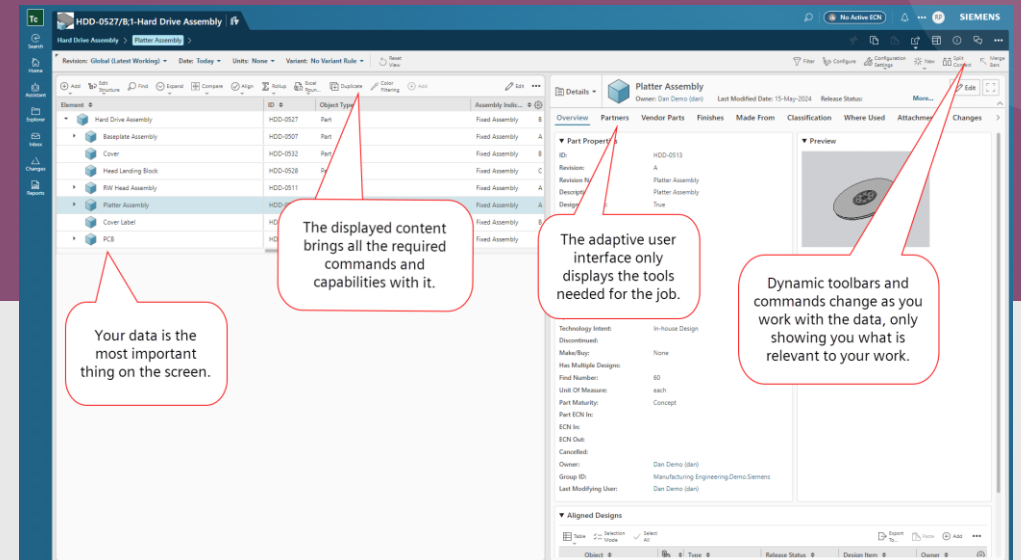
New Features, Improvements, and Changes

Active Workspace 2312+



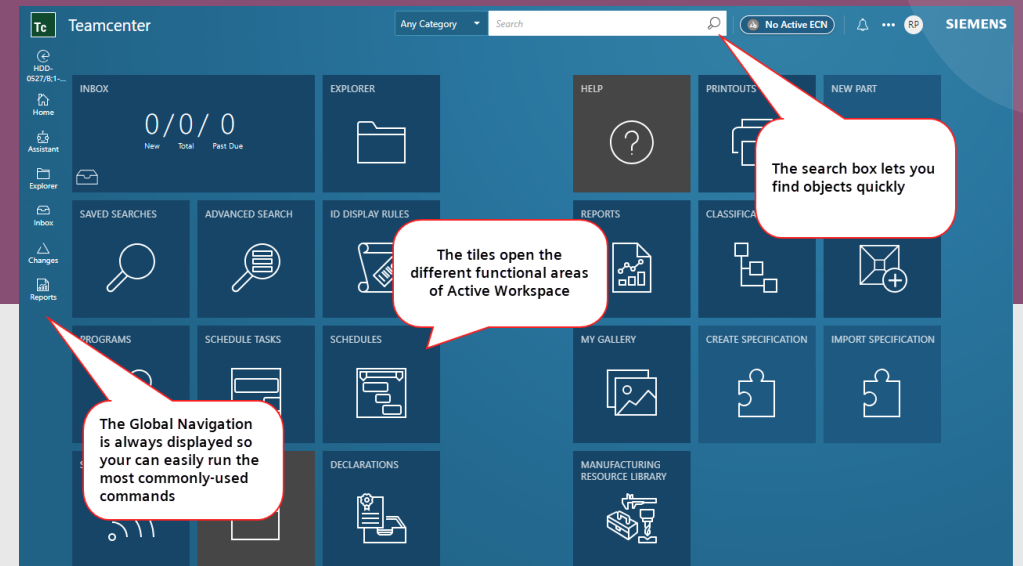
Active Workspace

- Active Workspace is a web-based client and user interface for Teamcenter that can run on any device with a web browser, such as a mobile phone, tablet, or laptop.
- It helps you create and manage data in your enterprise's product lifecycle management (PLM) system.
- The web interface shows you everything you need to get your work done quickly and easily.
- The image shows you the main work area and how it is tailored to fit your needs.



Fundamentals

- Navigation is easy and straightforward.
- The Home Page contains tiles that launch various commands, such as viewing your schedules, opening your Inbox, and managing your changes, as well as links to commonly-used functions and the search box.



Workflows

- Workflows are a series of required tasks, such as approvals (signoffs) and reviews, performed on an object, such as a part, document, or change.
- The workflow contains tasks related to the type of workflow launched for the object.
- These tasks are automatically sent to the responsible participant's Inbox.
- Once all the work is complete, the object is released from the workflow.

Submit to Workflow

Close

Workflow | **Assignments**

All Assigned


Template:
Review

* Name:
Review : 031518/A;1-Item A

Description:

▼ **Targets**

⊕ Add ✓ Select All

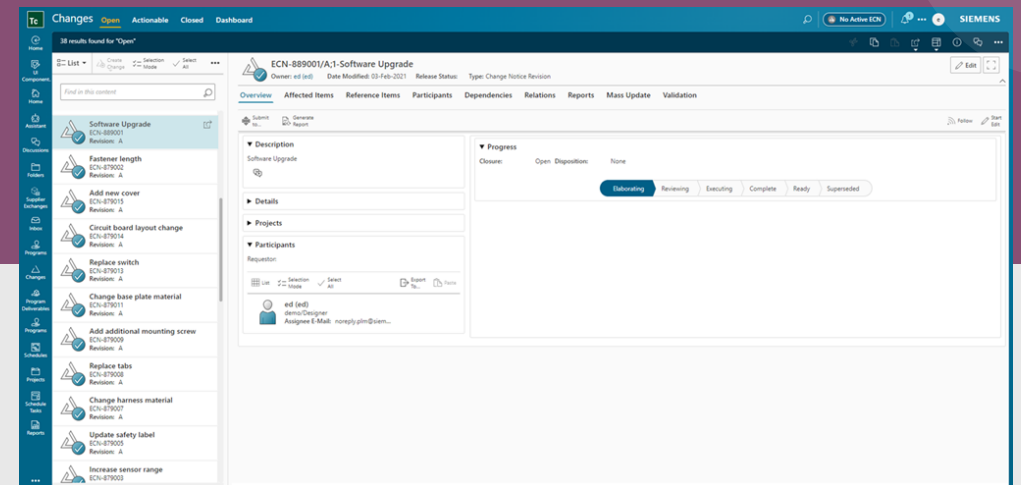
 Item A
031518
Revision: A

► **References**

Submit

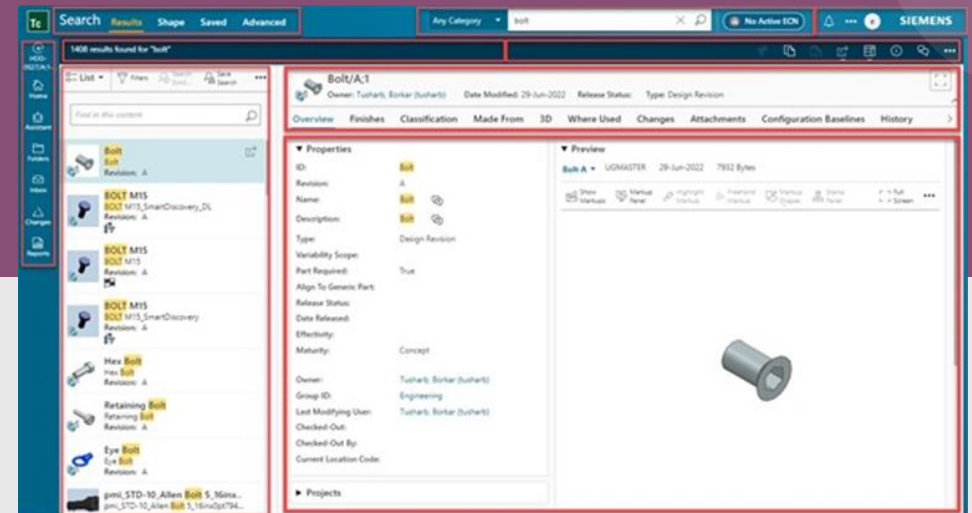
Change Management

- When a change is requested for an object, usually due to a problem found with it, it must go through a series of design revisions and approvals before the change is released.
- When you create a new change and submit it, a workflow is triggered that starts the process of tracking the work on the requested change.



User Interface

- For Teamcenter 2312, the Active Workspace user interface underwent several significant changes in terms of form and function.
- This includes changes in the **Home page** and **global navigation**, the **primary toolbar**, page **headers** and **layouts, folders**, and design and behavior changes for some UI elements.
- Accordingly, we have revised the documentation to include updated graphics and videos to orient you to the interface changes.



#Content

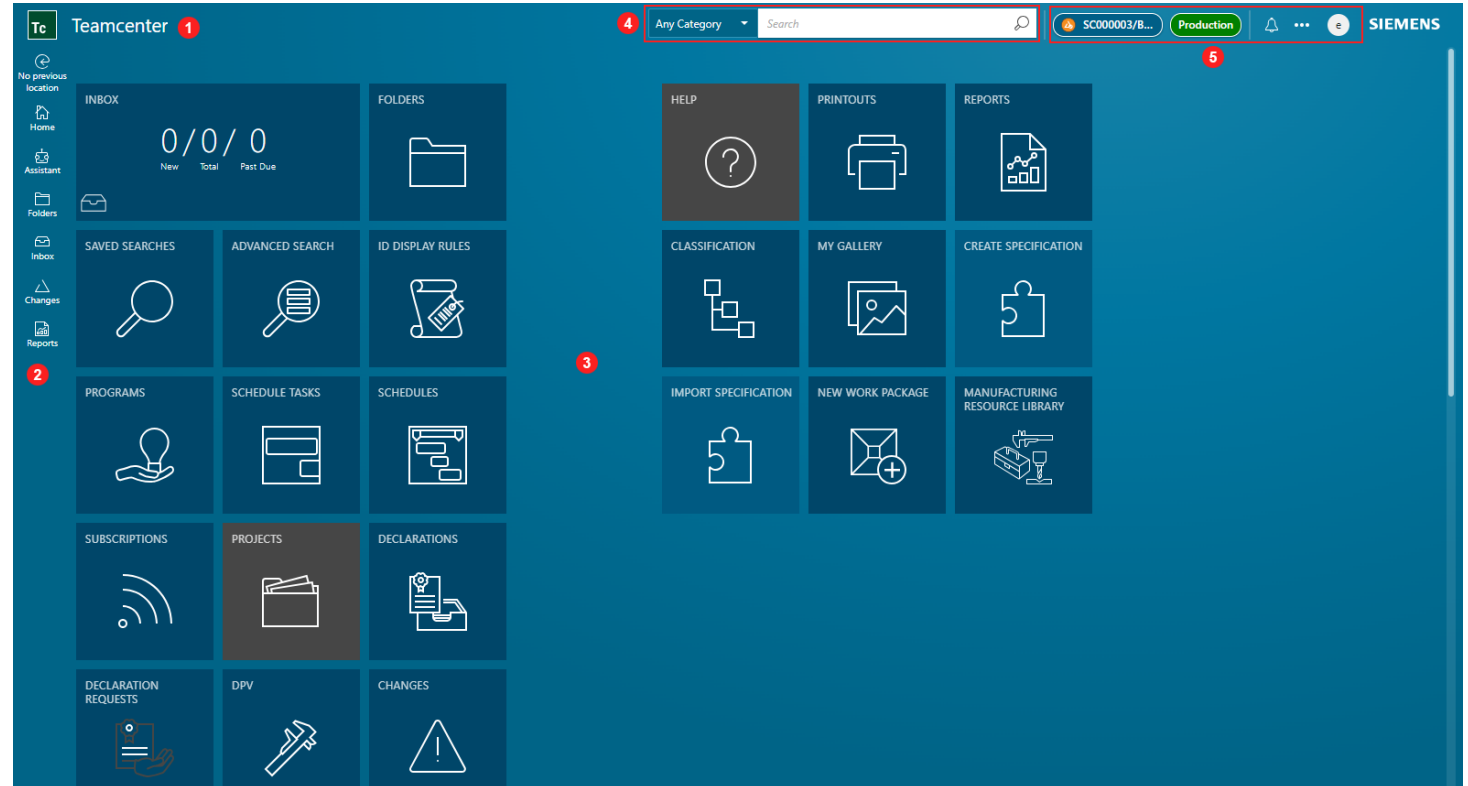


User Interface

A Complete Redesign

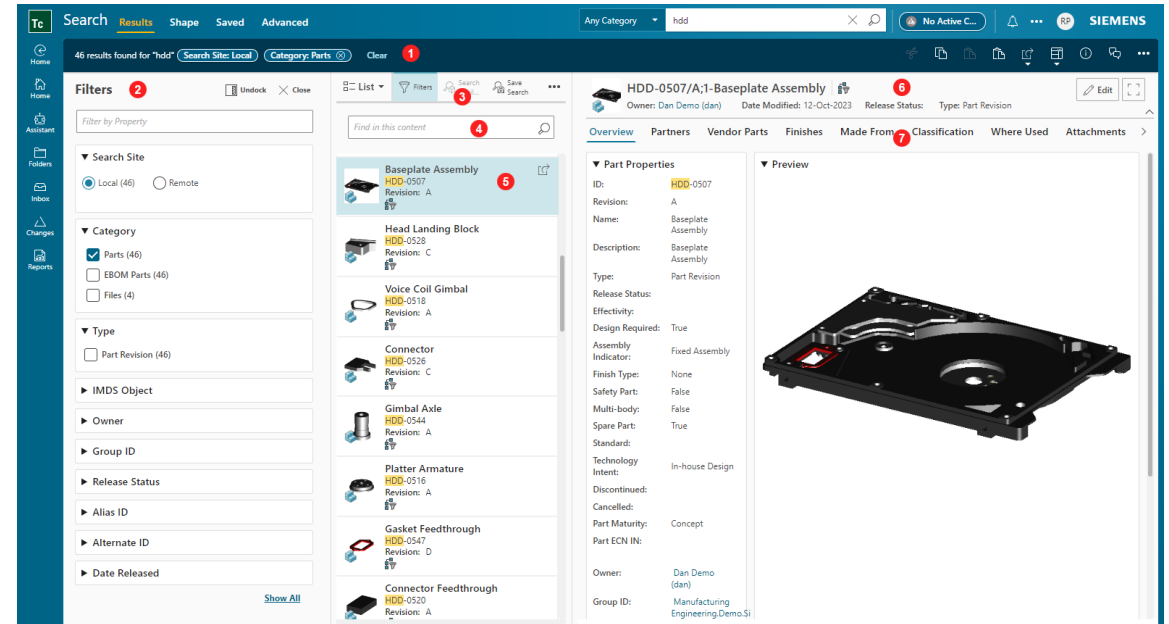
Home Page

- Global Header
- Global Navigation
- Tiles
- Global Search
- Session Controls



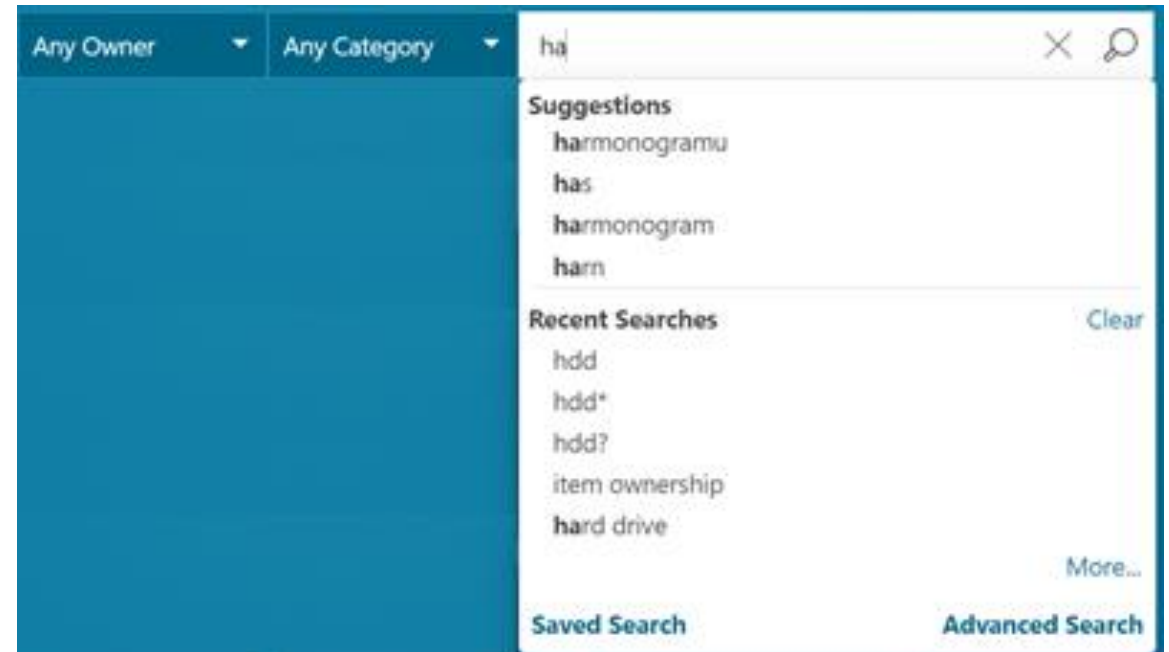
Search Page

- Results Panel
- Filters Panel
- Results Panel Toolbar
- In-context Panel
- Results Panel
- Object Information
- Tabs



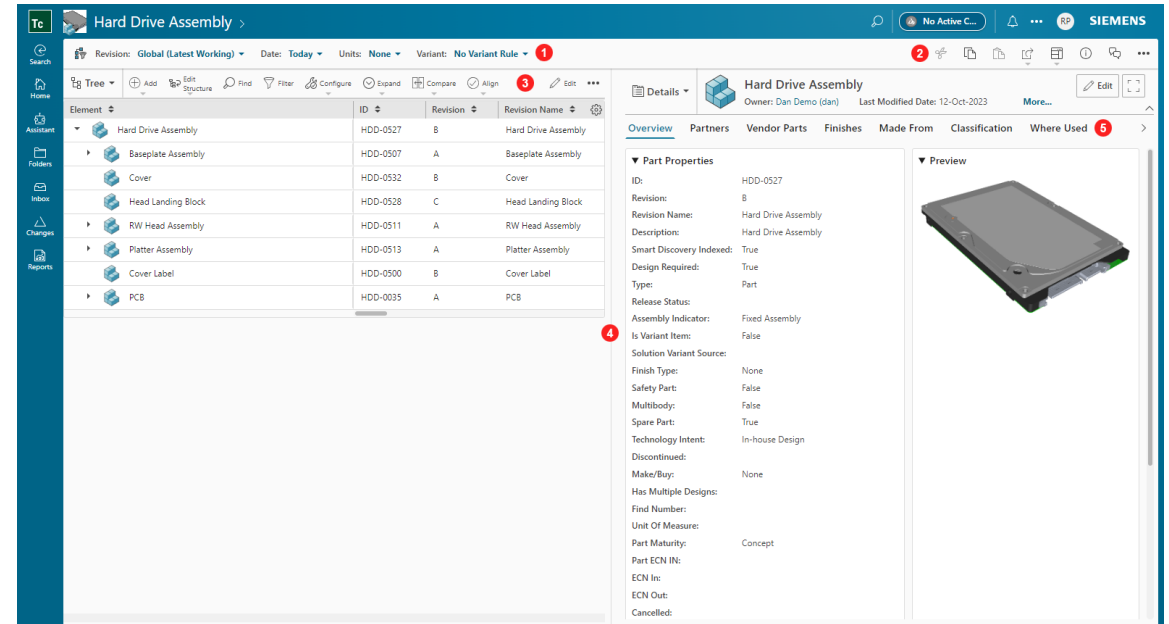
Suggestions

- Throughout a product's life cycle, you need to keep track of multiple drawings, attachments, and item revisions.
- There is no need to remember folders or directories where this data is located because you can use several search and filter options to locate any data stored in Teamcenter.



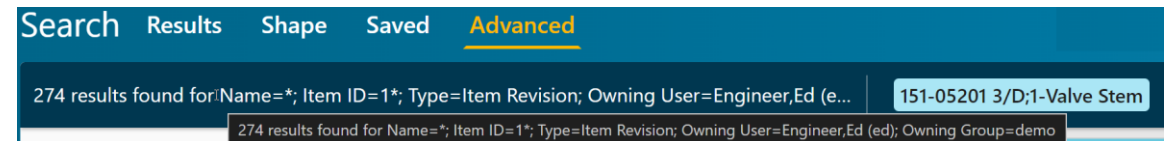
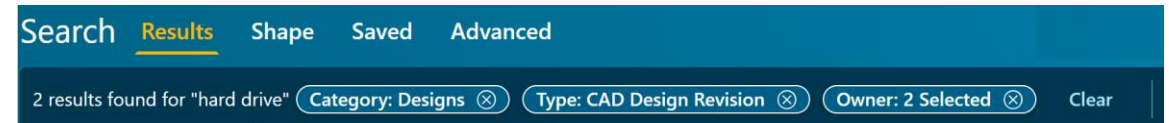
Object Page

- Object information and options
- Primary Toolbar
- Work Area Toolbar
- Work Area
- Tabs



Breadcrumbs

- The search **Results** page displays the filters that are applied to search results.
- Related filter values are grouped together in the breadcrumb, regardless of the order in which you choose them.
- Search criteria entered in **Find in this content** appear in the breadcrumb.



Folders

- Top-level Folder
- Favorites
- Active Folders
- Home
- Project Data
- Overview
- Contents

The screenshot shows the Siemens Teamcenter interface for managing folders. The main window displays a list of folders under the 'Home' folder. The folders are: Folders (1), Favorites (2), Hard Drive Assembly, Spindle Motor Assembly, Platter Assembly, Flex PCB 2 Assembly, Active Folders (3), Recently Modified, By Me, By My Group, Home (4), Mailbox, Newstuff, and Project Data (5). The 'Home' folder is selected, and its properties are shown on the right. The properties include Name: Home, Description: manny, Owner: manny (manny), and Group ID: demo. The 'Contents' section shows a table of folders within the Home folder.

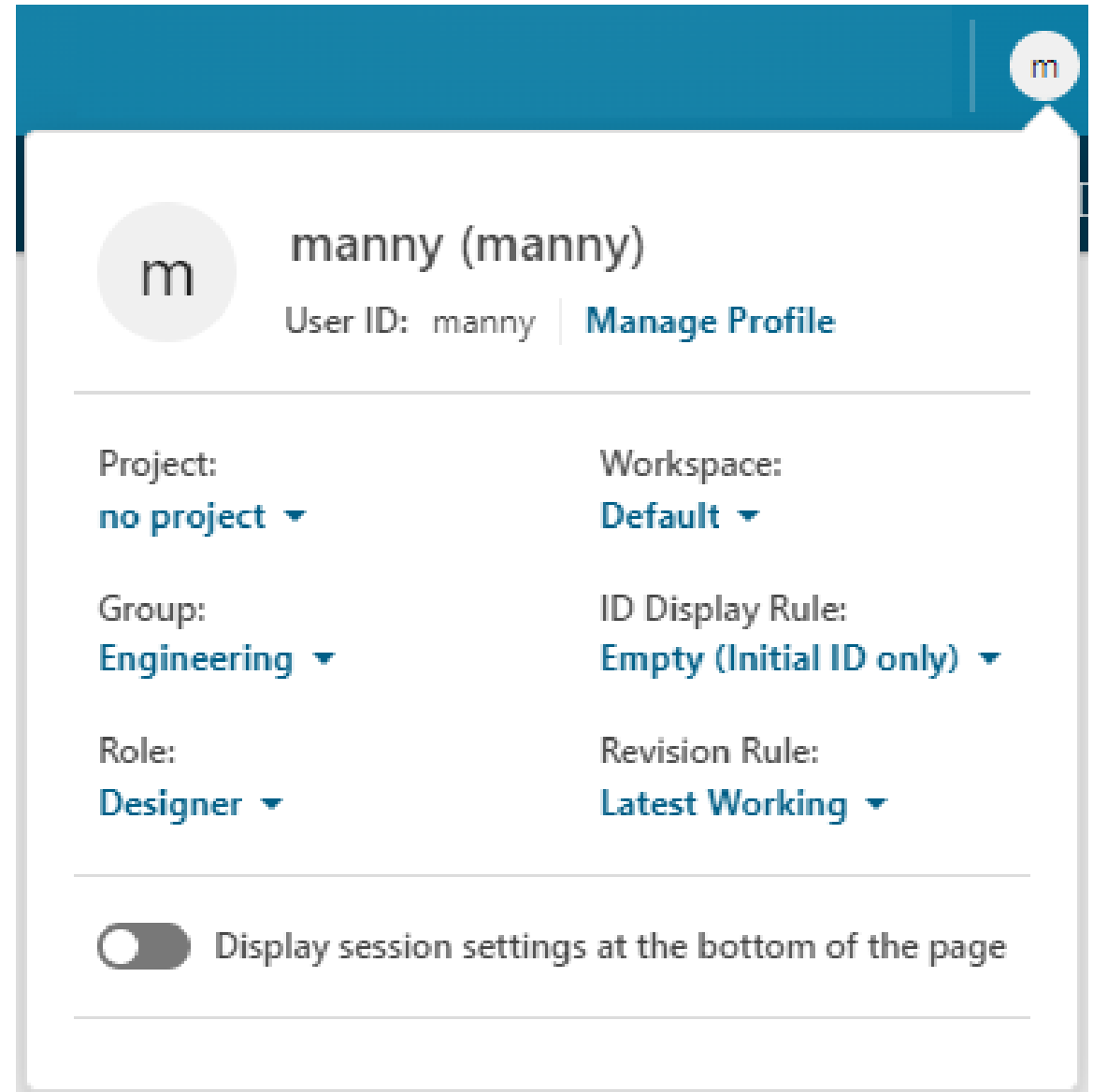
Object	Type	Checked-Out	Owner	Group
Mailbox	Mail Folder		manny (manny)	demo
Newstuff	Newstuff Folder		manny (manny)	demo

The screenshot shows the 'Explorer' folder in the Siemens Teamcenter interface. The folder name 'Explorer' is highlighted with a red box. The folder is located under the 'Home' folder. The properties of the Explorer folder are shown on the right, including Name: Explorer, Description: manny, Owner: manny (manny), and Group ID: demo. The 'Contents' section shows a table of folders within the Explorer folder.

Object	Type	Checked-Out	Owner	Group
Favorites	Favorites Folder		manny (manny)	demo
Active Folders	Active Folders Folder		manny (manny)	demo
Home	Home Folder		manny (manny)	demo

User Environment

- The properties displayed in the pop-up can vary depending on your group and role.
- For example, if only one workspace is configured for your role, the **Workspace** property is not present.



The screenshot shows a user profile pop-up for 'manny (manny)'. The user's name is displayed next to a circular profile picture containing the letter 'm'. Below the name, the user ID 'manny' is shown, followed by a 'Manage Profile' link. The pop-up is divided into several sections by horizontal lines. The first section contains two dropdown menus: 'Project' set to 'no project' and 'Workspace' set to 'Default'. The second section contains two more dropdown menus: 'Group' set to 'Engineering' and 'ID Display Rule' set to 'Empty (Initial ID only)'. The third section contains two dropdown menus: 'Role' set to 'Designer' and 'Revision Rule' set to 'Latest Working'. At the bottom of the pop-up, there is a toggle switch for 'Display session settings at the bottom of the page', which is currently turned off.

manny (manny)
User ID: manny | [Manage Profile](#)

Project: no project ▾ Workspace: Default ▾

Group: Engineering ▾ ID Display Rule: Empty (Initial ID only) ▾

Role: Designer ▾ Revision Rule: Latest Working ▾

Display session settings at the bottom of the page

Memberships

- Your user profile page enables you to provide information about yourself that other users can see and set several defaults and preferences that are applied when you work in Active Workspace.
- This topic explains how to access the page and describes the most common settings that new users may want to adjust.

▼ User Memberships

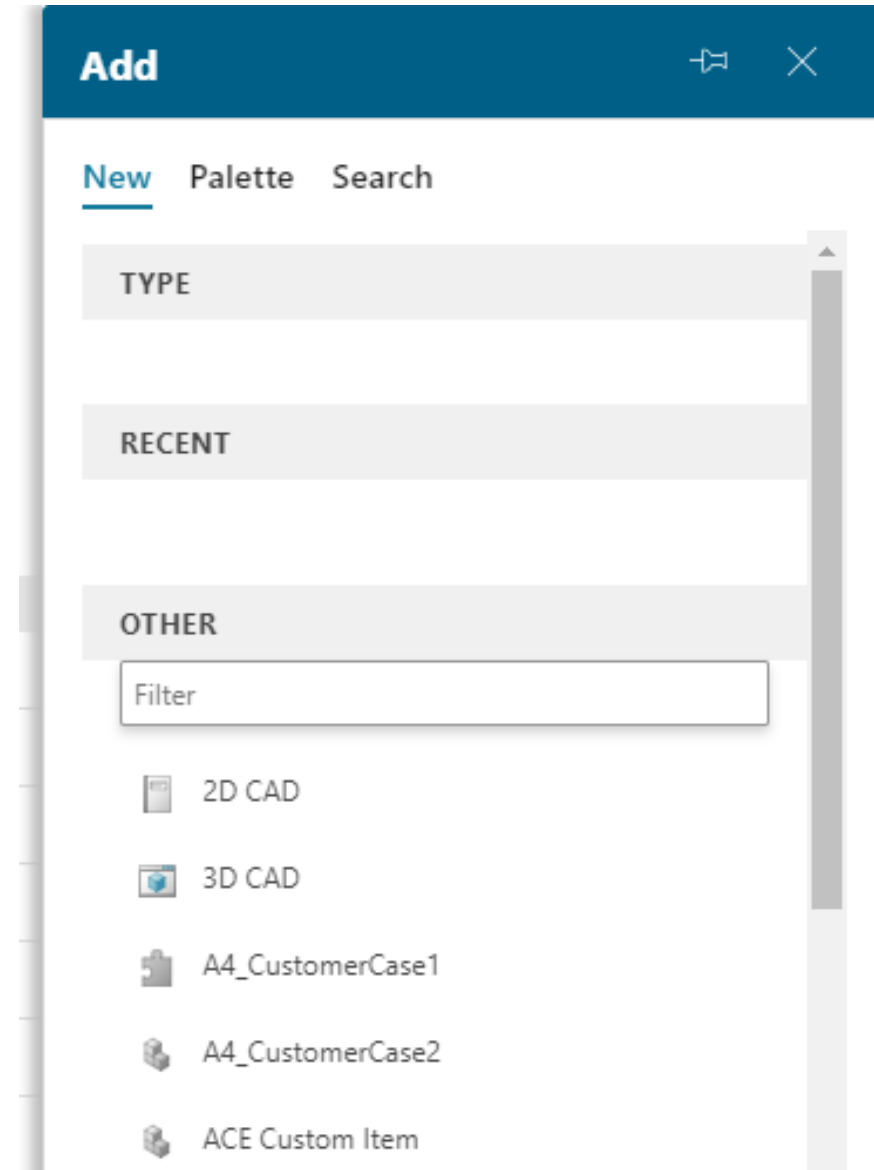
Default Group: 1

Default Volume: 2

Group	Default Role	3
Engineering	<input type="text" value="Advanced Engineer"/>	
EBOM group	<input type="text"/>	
Process Engineering	<input type="text" value="Process Engineer"/> ▼	4
Frontend Manufacturing	<input type="text" value="Manager"/>	
Quality	<input type="text" value="Process Engineer"/>	
Marketing	<input type="text"/>	
Technical Documentation	<input type="text"/>	
Marketing.MyOrg	<input type="text"/>	
PLM Software.Siemens	<input type="text"/>	
Regulatory Affairs	<input type="text"/>	
Business Unit	<input type="text"/>	
ADA Administrator	<input type="text"/>	
Backend Manufacturing	<input type="text"/>	
Piping Engineering	<input type="text"/>	
Technology Development	<input type="text"/>	
Program Management	<input type="text"/>	
Project Administration	<input type="text"/>	

Task Panel

- Some commands open a task panel. Typically, these panels display over the top of the information in the work area. Examples include **Add** panel, **Create Change** panel, and **Trace Link** panel.



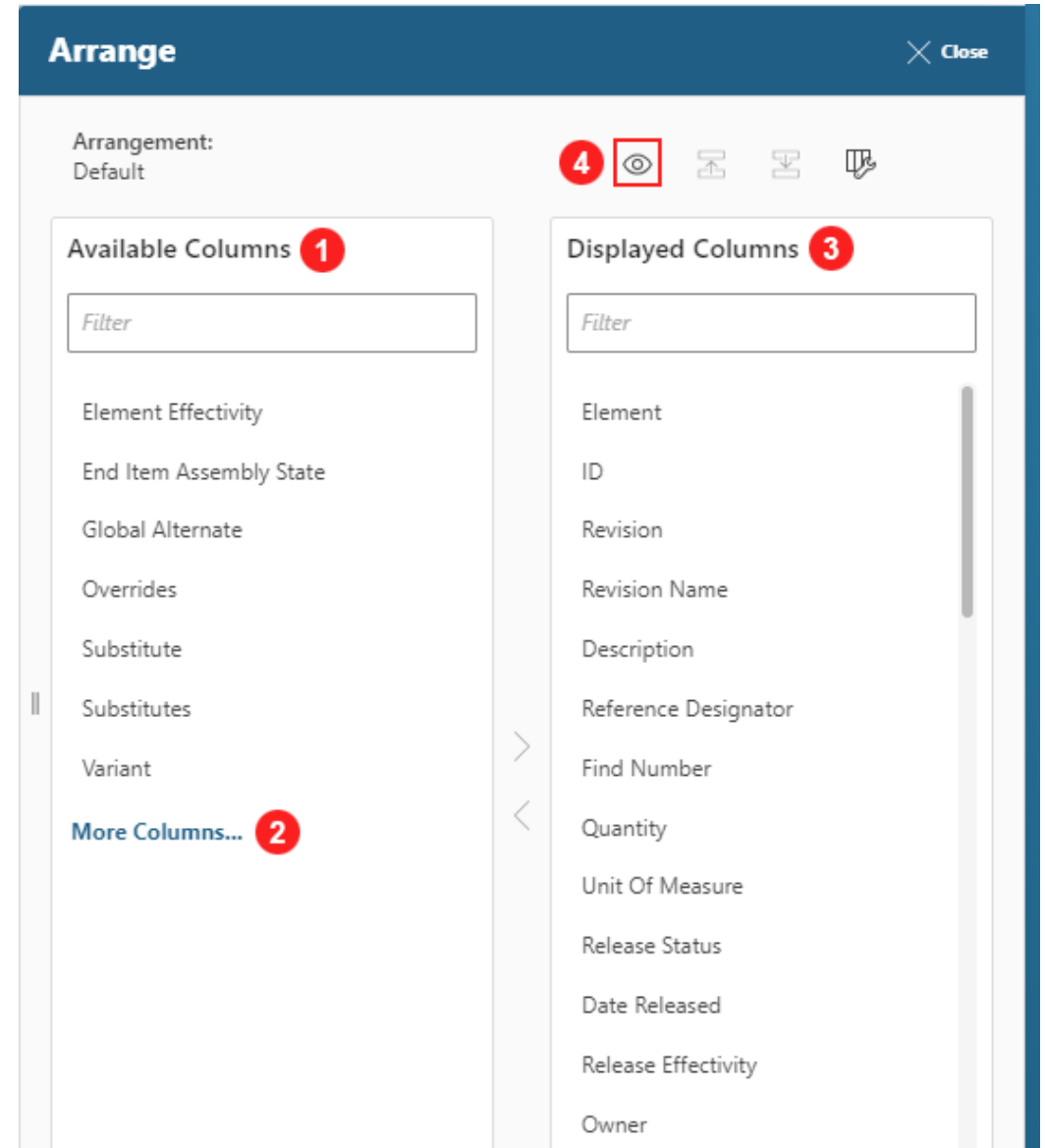
Move and Resize Panels

- As you work with data objects, you may open panels to perform your task.
- Some panels, such as the **Information** panel, can be undocked and moved around the browser window.
- When undocked they can also be resized.
- When you re-dock a panel to return it to its default location, the next time you undock the panel, it returns to its last undocked size and position.



Table Columns

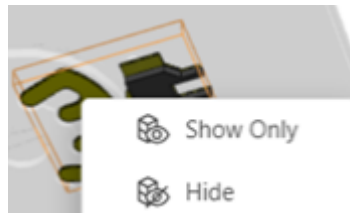
- Create, save, and open different column arrangements to control which columns appear in tables and trees. When viewing a table or tree, the default column arrangement appears if you have not previously viewed the table. If you viewed the table previously, you see the last column arrangement used. You can open a different column arrangement, or add more columns to a table you are currently viewing to create a new column arrangement.



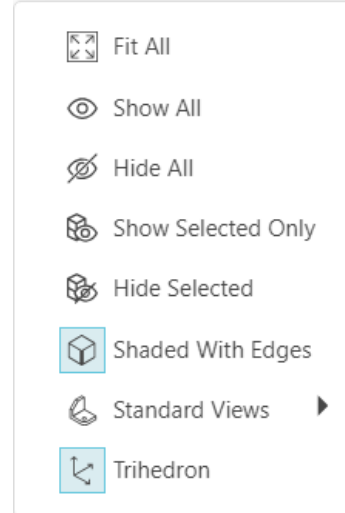
Context Menu

- Access various commands in the context of the items that you are working with by right-clicking the items.

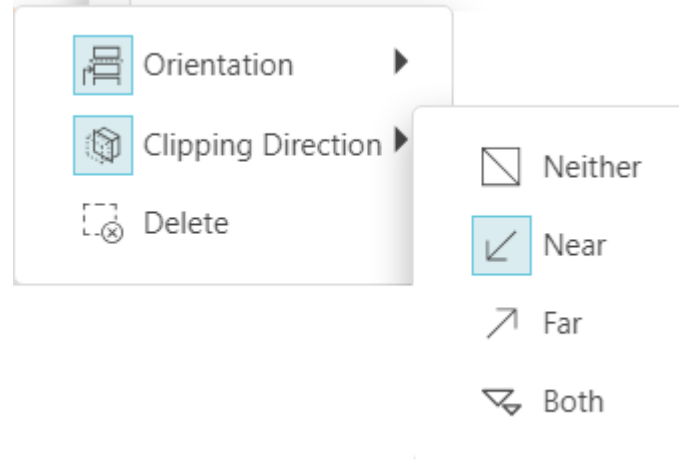
Part



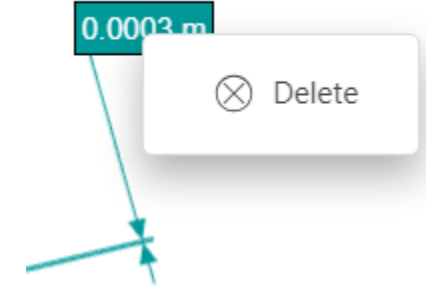
3D viewer



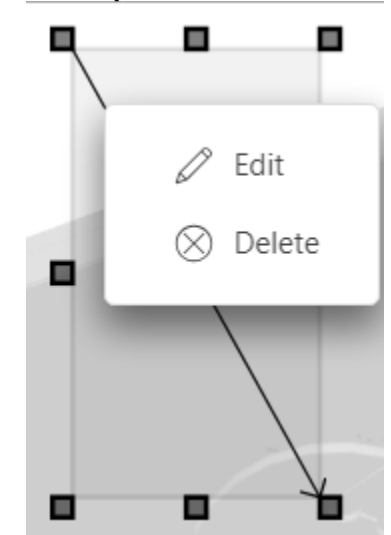
Section



Measurement

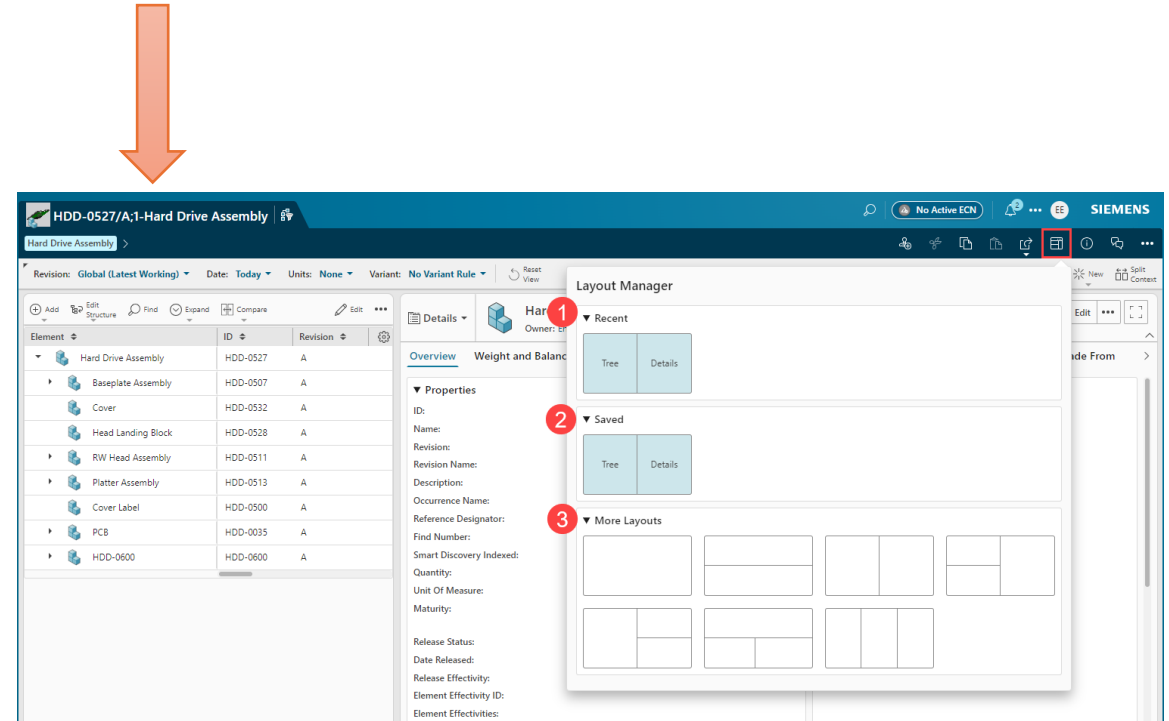


Markup



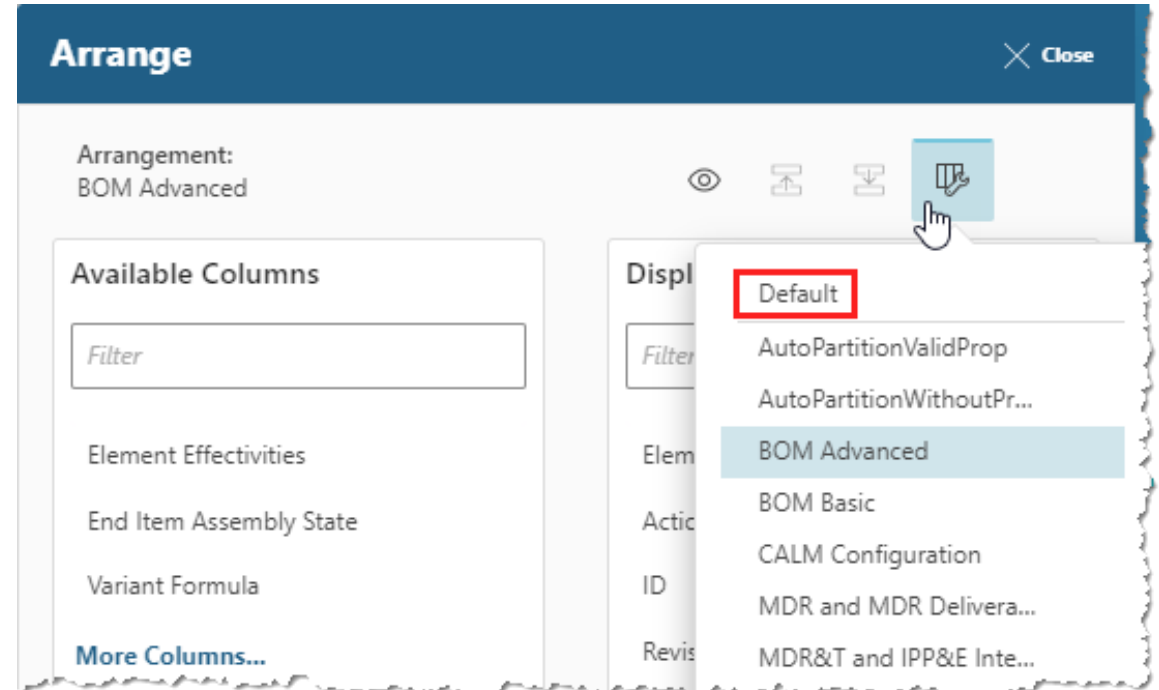
Layout Manager

- Since the 2312 release and continuing in this release, page layout information is stored locally.
- The default layout configured on the server is applied if your browser or device does not have local page layout information stored.
- Once you select a layout, it is displayed each time you return to the same page until you select a different layout.
- If you open that same page's URL in a different browser or device, the default layout is applied, and new local layout information is stored for that URL.



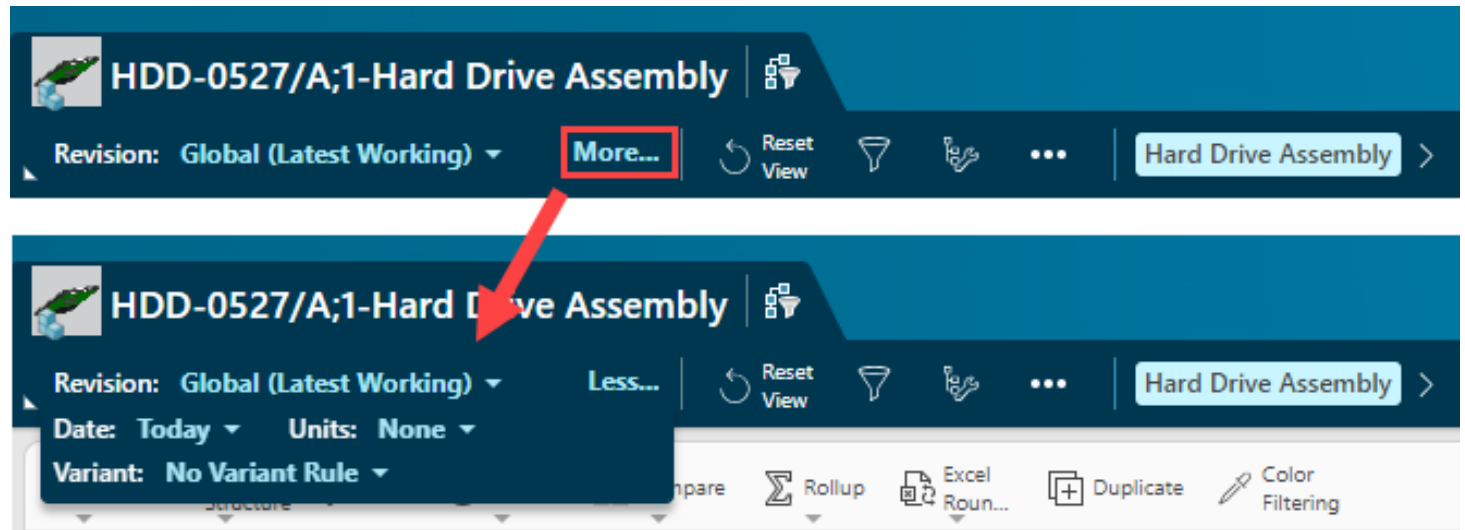
LOV as Table

- Previously, dropdown lists of values (LOVs) showed only the **Value**.
- Some drop-down lists now appear as a table rather than as a list of single values.
- You can search for values in these tables.
- As an administrator, to configure this option, a new **renderingHint** named **lovTable** must be appended in the stylesheet to a property that has an LOV attached to it.
- `<property name="aw2+LongString_LOV" renderingHint="lovTable"/>`



Toolbar

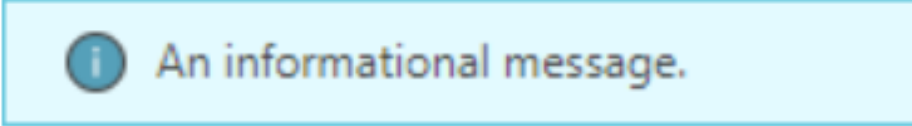
- Starting in 2406, properties and details other than the name of the revision may not appear on the toolbar when the Active Workspace window is not in full-screen mode or if the space preceding the breadcrumbs area has shrunk in size.
- Depending on the size of your browser window and display resolution, the **More...** command may be displayed on the toolbar.
- By clicking this command, the additional properties and details of the object appear.




Banner


- You can now create a banner along the top of the Active Workspace user interface. Use this banner to alert your users of future downtime, alert them of potential issues, and so on.
- You must set values of the **AWC_Banner** site preference and specify the message text, type, and beginning date and time. You can optionally set an ending time or a duration.
- There are three types of messages that you can create.


- INFO

A light blue rectangular banner with a thin blue border. On the left side, there is a circular icon containing a lowercase letter 'i'. To the right of the icon, the text "An informational message." is displayed in a dark blue font.

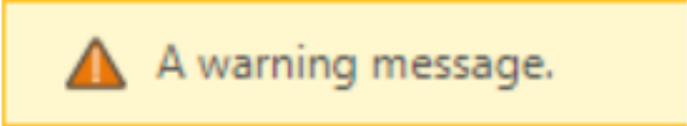
 An informational message.


- SUCCESS

A light green rectangular banner with a thin green border. On the left side, there is a circular icon containing a white checkmark. To the right of the icon, the text "Updates completed successfully." is displayed in a dark green font.

 Updates completed successfully.

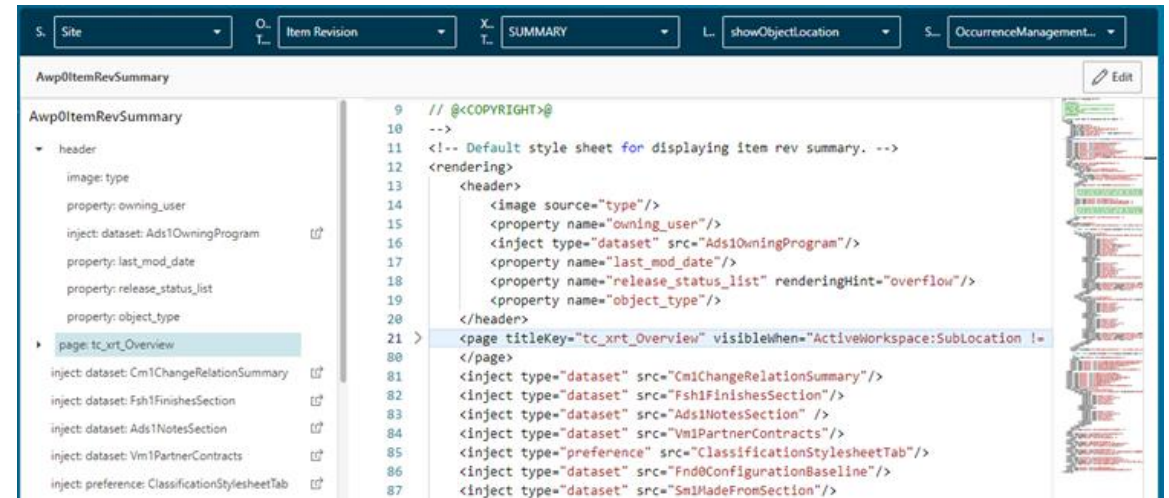
- WARNING

A light yellow rectangular banner with a thin yellow border. On the left side, there is a triangular icon containing an exclamation mark. To the right of the icon, the text "A warning message." is displayed in a dark yellow font.

 A warning message.

XRT Editor

- Before, the editor did not navigate injected style sheets.
- You needed to manually search for them and edit them separately.
- Now, when modifying style sheets using the XRT Editor you can navigate a tree which represents the main style sheet and all of the injected style sheets automatically.

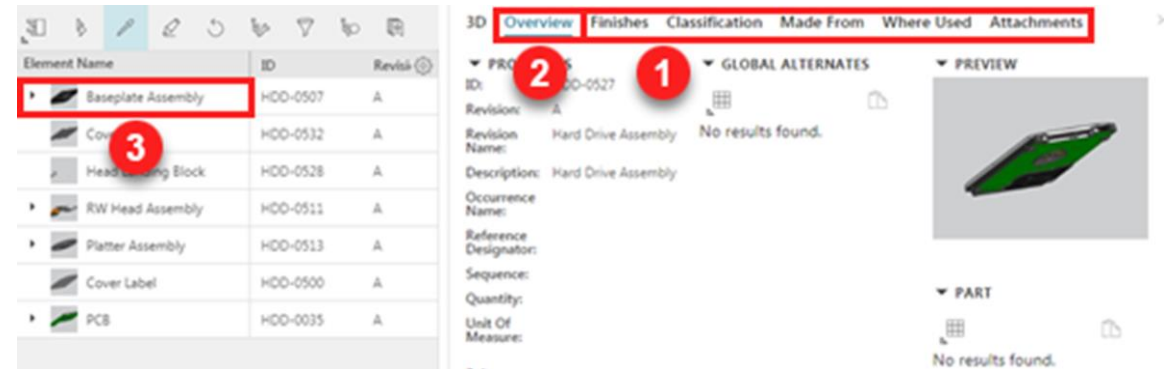


The screenshot displays the XRT Editor interface. On the left, a tree view shows the structure of the 'Awp0ItemRevSummary' style sheet, including a 'header' section and several injected datasets and preferences. The 'page: tc_xrt_Overview' is currently selected. On the right, the XML editor shows the corresponding XML code, with the selected page element highlighted. The XML code includes a copyright notice, a default style sheet reference, and various injected elements like 'image', 'property', and 'dataset'.

```
9 // @<COPYRIGHT>@
10 -->
11 <!-- Default style sheet for displaying item rev summary. -->
12 <rendering>
13   <header>
14     <image source="type"/>
15     <property name="owning_user"/>
16     <inject type="dataset" src="Ads1OwningProgram"/>
17     <property name="last_mod_date"/>
18     <property name="release_status_list" renderingHint="overflow"/>
19     <property name="object_type"/>
20   </header>
21 > <page titleKey="tc_xrt_Overview" visibleWhen="ActiveWorkspace:Sublocation !=>
22 </page>
23 </rendering>
24 </Awp0ItemRevSummary>
```


Content

- The **Content** tab displays the content of a structure. The following diagram shows the configurable parts of the **Content** tab.



Revert

- The revert functionality applies to those ECNs that include redline changes.
- When a user is authoring a BOM in the context of an ECN and has either replaced, removed, or added a new line item, sometimes unintentional changes can occur.
- An incorrect entry might unintentionally be made.
- The revert functionality lets you return a redline change back to its original impacted version.
- You can revert items in BOMs with and without effectivity dates applied.

The screenshot shows the SAP BOM software interface for 'Baseplate Assembly'. A context menu is open over the 'New_Magnet' item, with the 'Revert' option highlighted. The BOM table below shows the following items:

Element	ID	Revision	Revision Name	Description	Reference	Sequence	Quantity	Unit Of Me...
Baseplate Assembly	HDD-0514	B A	Baseplate Assembly	Baseplate Assembly				
Magnet Frame Lower.x2	HDD-0525	A	Magnet Frame Lower	Magnet Frame Lower		12	2	each
New_Magnet		A	New_Magnet Magnet	Magnet		20		each
Lock Gimbal		A	Lock Gimbal	Lock Gimbal		33	30	each
Gasket Feedthro...		A	Gasket Feedthrough	Gasket Feedthrough		40		each
Motor Electronics		A	Motor Electronics Assembly	Motor Electronics Assembly		50		each
PCB3 Motor D...		A	PCB3 Motor Drive	PCB3 Motor Drive		10		each
Connector		A	Connector	Connector		20		each
Lock Actuator Gir...		A	Lock Actuator Gimbal	Lock Actuator Gimbal		60		each
Base-Plate		A	Base-Plate	Base-Plate		70		each
Magnet		A	Magnet	Magnet		80		each
Magnet Frame Up...		A	Magnet Frame Upper	Magnet Frame Upper		90		each
New Base plate		A	New Base plate			100		each

Change Summary | Overview | ECN-000095/A;1-car-ecn2

ID	Action	Revision	Element	Revision Name	Occurrence Effectivity	Quantity	Sequence
031975	Modified	B A	Car	Car			
031979	Property Changed	A	Break	Break	01-Jan-2025 01:00 to 15-Jan-2025 00:59 (NONE) 01-Jan-2025 01:00 to UP (NONE)	30	
031979	Property Changed	A	Break	Break	15-Jan-2025 01:00 to UP (NONE)	66 -	300 30
031976	Replaced	A	Door	Door	01-Jan-2025 01:00 to 15-Jan-2025 00:59 (NONE) 01-Jan-2025 01:00 to UP (NONE)	10	
031983	Added Existing to Repla...	A	Replace-Part Door	Replace-Part Door	15-Jan-2025 01:00 to UP (NONE)	10	
031982	Added Existing	A	New-Part	New-Part	15-Jan-2025 01:00 to UP (NONE)	50	
031977	Removed	A	Window	Window	01-Jan-2025 01:00 to 15-Jan-2025 00:59 (NONE) 01-Jan-2025 01:00 to UP (NONE)	20	

Compare Elements

Comparison level	Description
All Levels	Compares the elements at every levels in the two structures. If this option is selected for very large structures, performance may be adversely affected.
Components Only	Compares only the elements that are at the lowest level (components).
Current Level	Compares only the elements that are currently displayed in the two structures. This is the default level of comparison.
Linked Assemblies or Components	Compares two structures by using accountability check. This comparison level is displayed only if Multi-Structure Foundation is available in your Teamcenter environment. Accountability check is a verification mechanism to check if all the elements in one structure have equivalent elements in the other structure. You can define your own properties for equivalence. You can also specify a set of properties for comparison.

The screenshot displays the 'Compare Structures' interface in Siemens Teamcenter. It features two side-by-side comparison panels. The left panel is for 'INTERIOR CK' and the right panel is for 'EXTERIOR CK'. Both panels show a tree view of elements and a properties table.

INTERIOR CK Panel:

- Revision: Global (Latest Working) | Date: Today | Uni
- Tree with Summary | Add | Edit Structure | Find | Filter | Edit | ...
- Element Table:

Element	ID
INTERIOR CK	INTERIOR CK
FR SEAT CK	FR SEAT CK
RR SEAT CK	
- 3D Overview | Weight and Balance | Parameters >
- PROPERTIES:

ID:	INTERIOR CK
Name:	INTERIOR CK

EXTERIOR CK Panel:

- Revision: Global (Latest Working) | Date: Today | Uni
- Tree with Summary | Add | Edit Structure | Find | Filter | Edit | ...
- Element Table:

Element	ID
EXTERIOR CK	EXTERIOR CK
MIRRORS	MIRRORS
GA WINDSHIELD DC	
- 3D Overview | Weight and Balance | Parameters >
- PROPERTIES:

ID:	EXTERIOR CK
Name:	EXTERIOR CK

The right sidebar contains utility icons: Information, Discuss, Open, Cut, Copy, Paste, New, and More...

Compare Properties

- You can compare common properties of objects.
- Select multiple objects from the list.

The screenshot shows a software interface with a list of parts on the left and a comparison table on the right. The list includes:

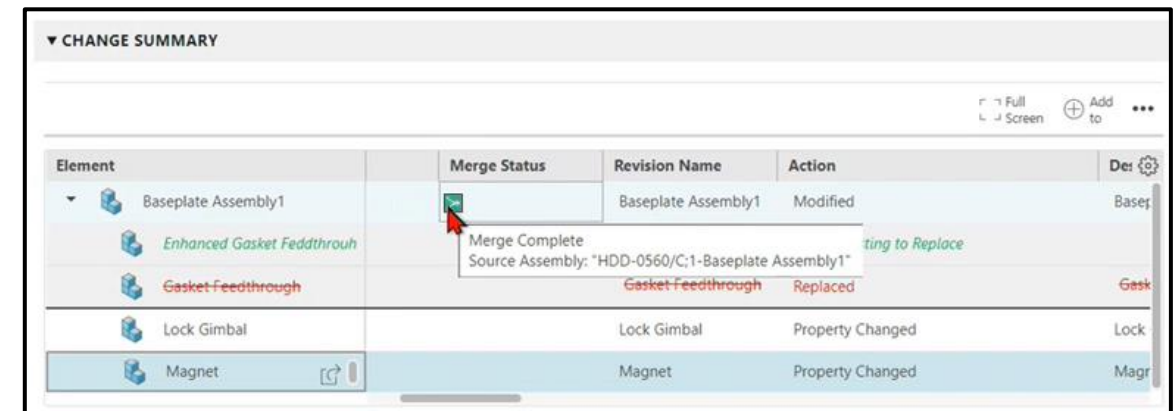
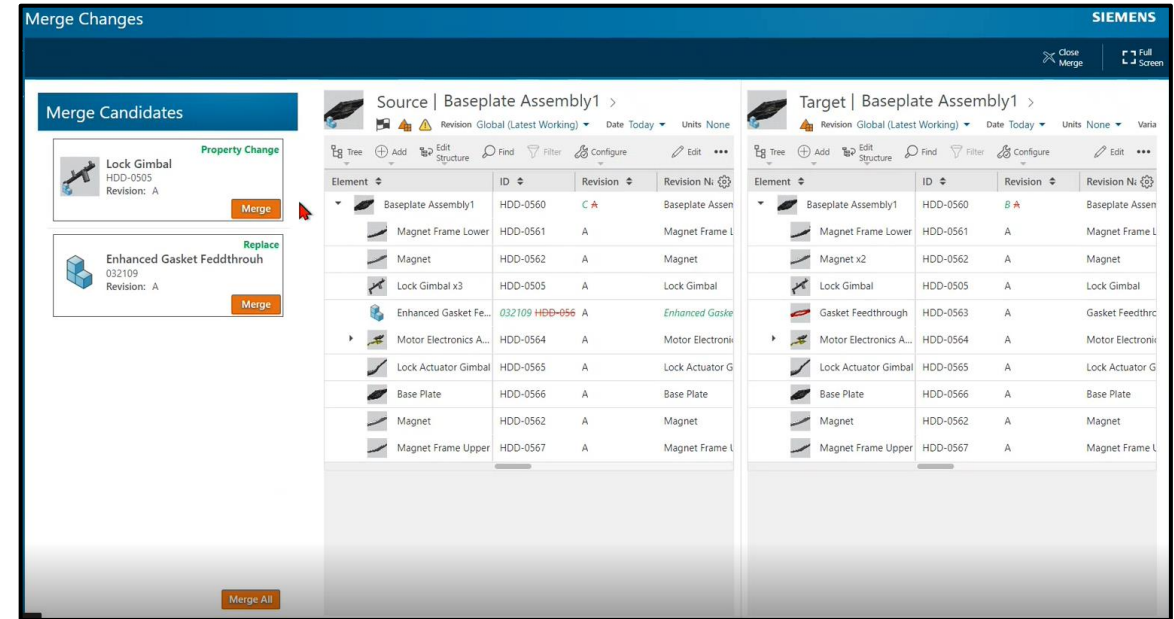
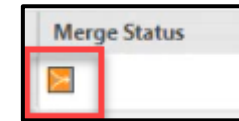
- Gimbal Spindle (HDD-0540, Revision: A)
- Platter Spacer (HDD-0539, Revision: A)
- Nut Spindle (HDD-0534, Revision: A)
- Gimbal Hub (HDD-0519, Revision: A)
- Bearing Large (HDD-0501, Revision: A)

The comparison table shows the following data:

	HDD-0540/A;1-Gimbal Spindle	HDD-0539/A;1-Platter Spacer	HDD-0534/A;1-Nut Spindle
Name	Gimbal Spindle	Platter Spacer	Nut Spindle
Description	HDD-0539 test	HDD-0539 test	HDD-0534
Release Status			
Checked-Out			
ID	HDD-0540	HDD-0539	HDD-0534
In Process		+	
Revision	A	A	A
Classified in			
Checked-Out By			

Merge

- You can compare and merge unincorporated changes to existing designs.
- Through this process, you can integrate an emergency released ECN into an in-progress ECN by viewing both structures side-by-side and selecting updated items to merge.



Excel Round Trip

- When exporting to Excel, you can now choose to use the existing columns displayed in the structure window or specify your own with the standard **Arrange** user interface.
- This is done by selecting a **Custom** template from the Export to Excel drop down and following the **Arrange** user interface.
- You can continue to select from the preconfigured list of Excel export templates.

Export To Excel Close

▶ Settings

▼ Properties

* Template:
Custom

Arrangement:
Default_copy

Available Columns

Filter

Element Effectivity
End Item Assembly State
Global Alternate
Overrides
Substitute
Variant

[More Columns...](#)

Displayed Columns

Filter

Element
Action
ID
Revision
Revision Name

Save as new arrangement

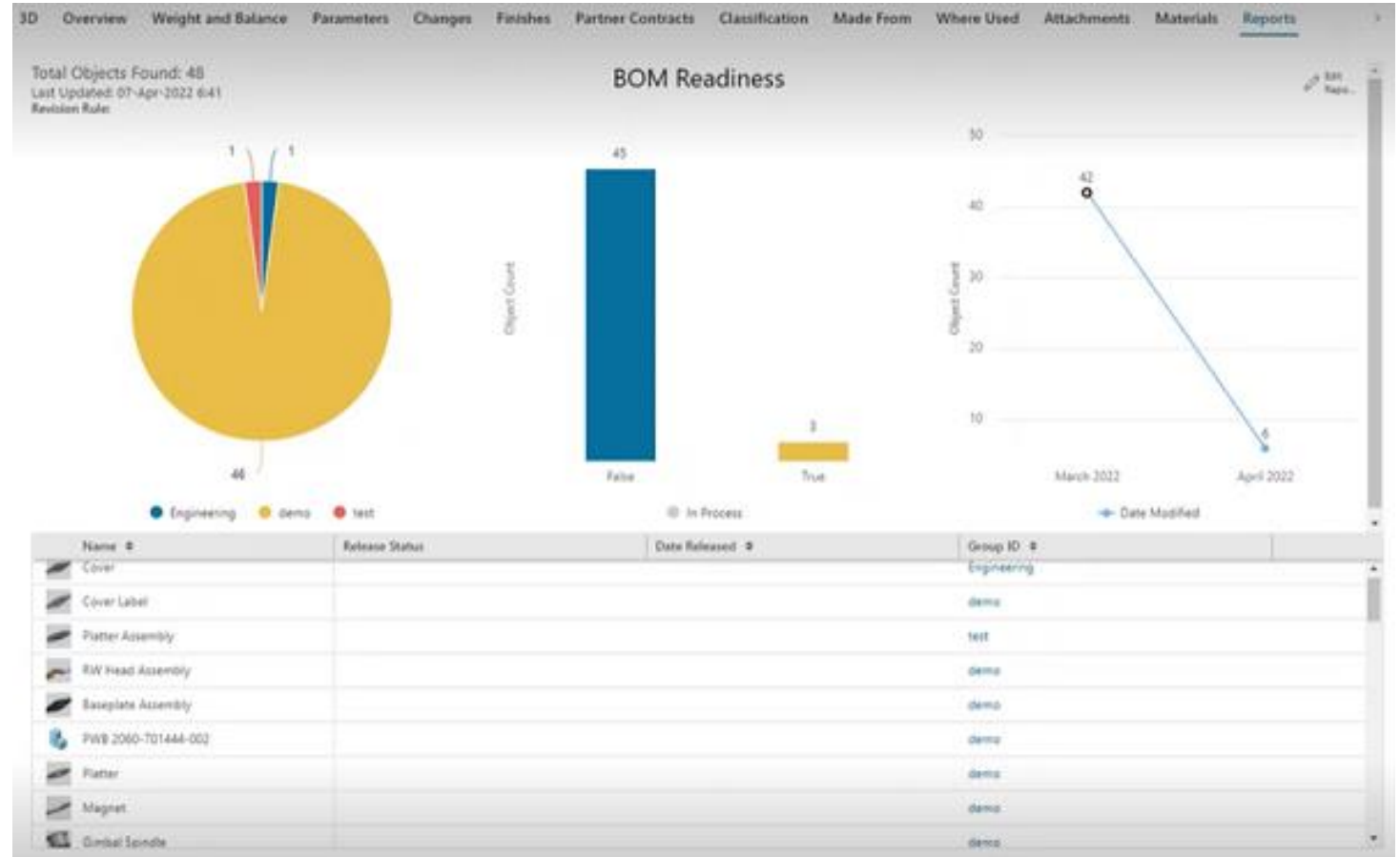
Name:
Default_copy_copy

Run in Background

Save and Export

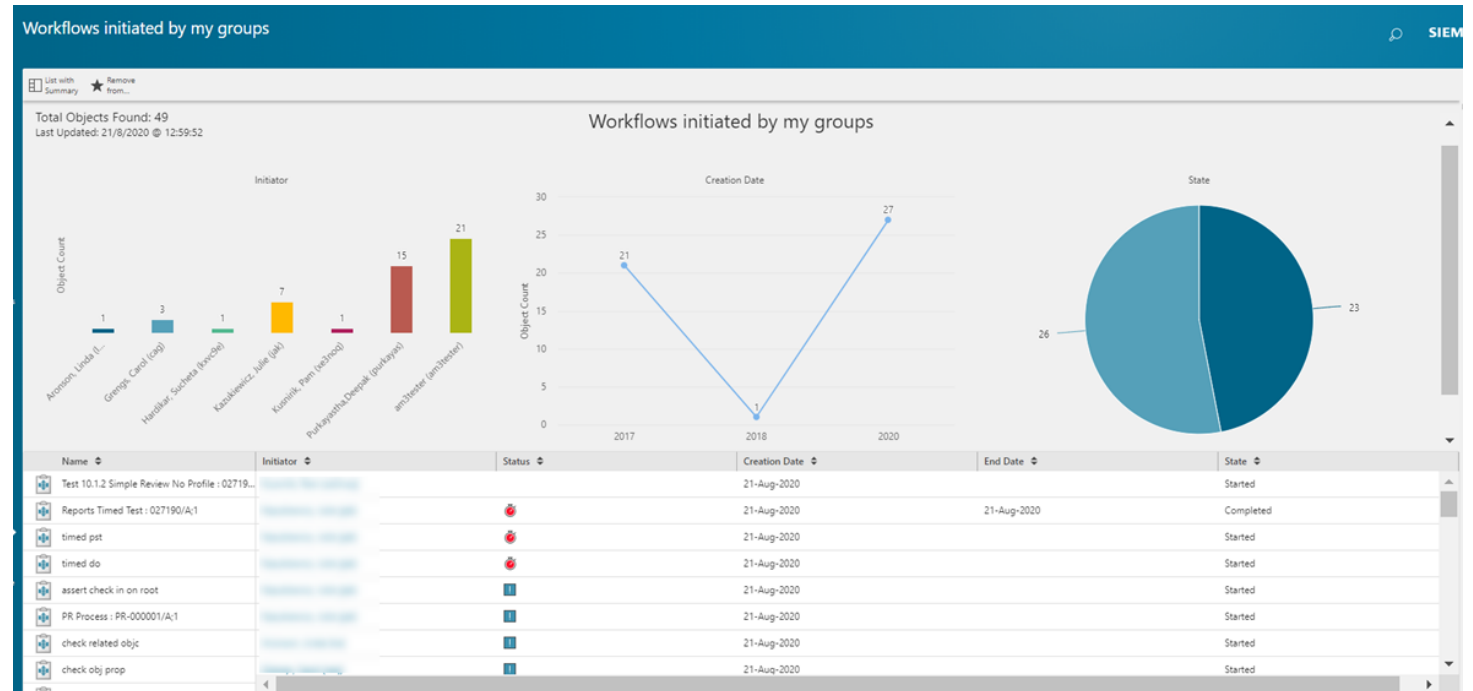
Reports

- You can create a dashboard report for structure readiness to gather data about the components of the selected structure.
- The following is an example of how to create a structure readiness report.
- After creating the report definition, you can search and select a product structure, and generate a report.
- This report traverses the selected structure to display information about its components, such as, their release status, how many of them are in process, the date released, and the date modified.



Dashboard

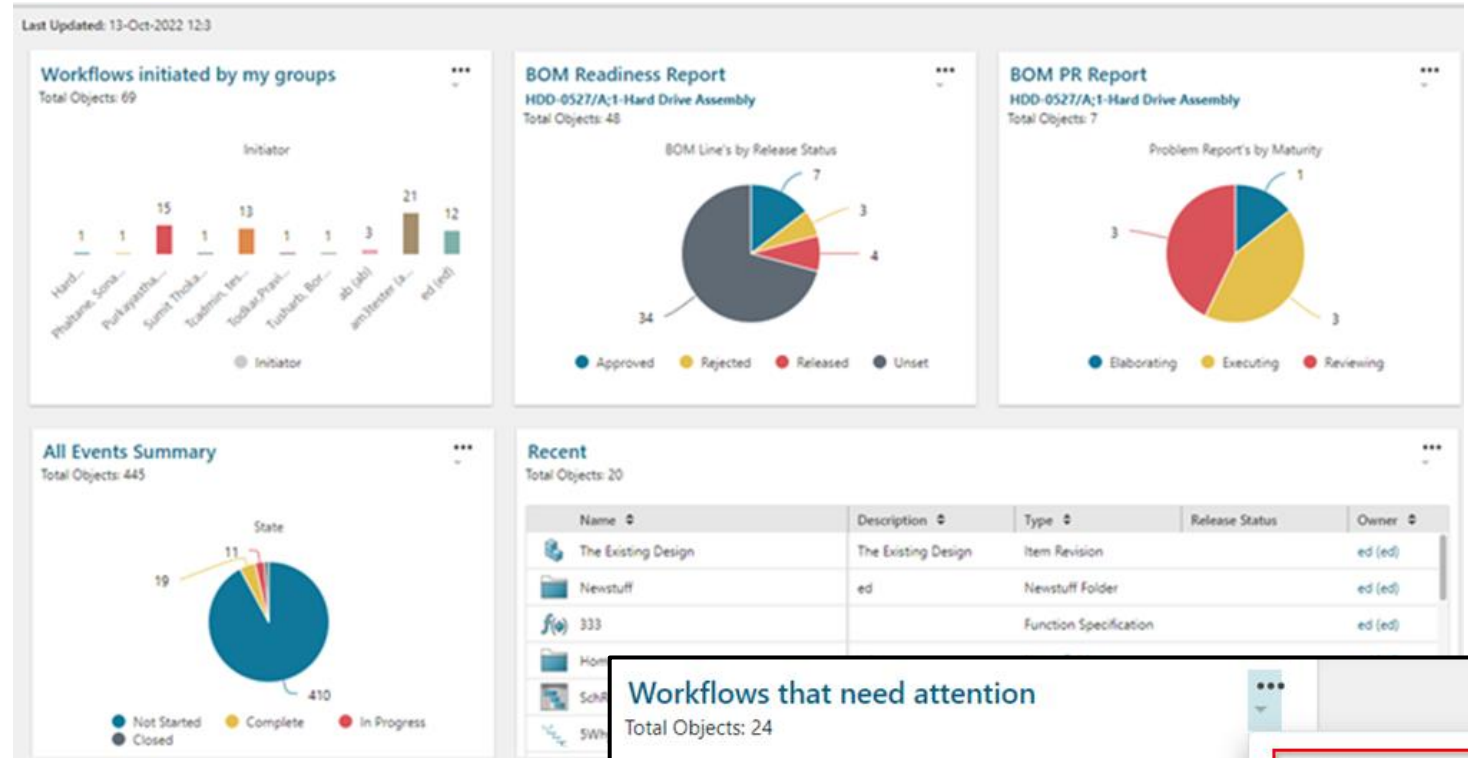
- Once a report is open, you can drill down to view more specific data.



My Dashboard

My Dashboard is a personalized list of your favorite reports. It contains Active Summary reports.

To open the report, hover over the report title until a link appears, and click the title link to open it.



Workflows that need attention
Total Objects: 24

Initiator	Count
BV_User_1 (bv_user_1)	4
BV_User_2 (bv_user_2)	1
Karia, Parag (karia)	2
Purkayastha,Deepak (purkayas)	15
ed (ed)	2

- BV_User_1 (bv_user_1)
- BV_User_2 (bv_user_2)
- Karia, Parag (karia)
- Purkayastha,Deepak (purkayas)
- ed (ed)

Open

Move Previous

Move Next

Remove

Default Template

- In case users from different groups want to see a different default template for an object, you can define groups/subgroups for a template.
- You can use the existing preference **WorkspaceObject_default_workflow_template**. This preference can be enhanced to support multiple values with the format **GroupName::Template Name** or **Subgroup.Group::TemplateName**.

WorkspaceObject_default_workflow_template

Cancel Save

▼ Definition

Name: WorkspaceObject_default_workflow_template

* Product Area: General

* Description: Defines the default workflow template to be used for submitting Workspace Objects to the workflow.

* Protection Scope: User

* Environment: Enabled

Location: Site

Type: String

Multiple Values: Yes

▼ Values

Values:

WorkspaceObjectDefaultWorkflowTemplate Clear (1)

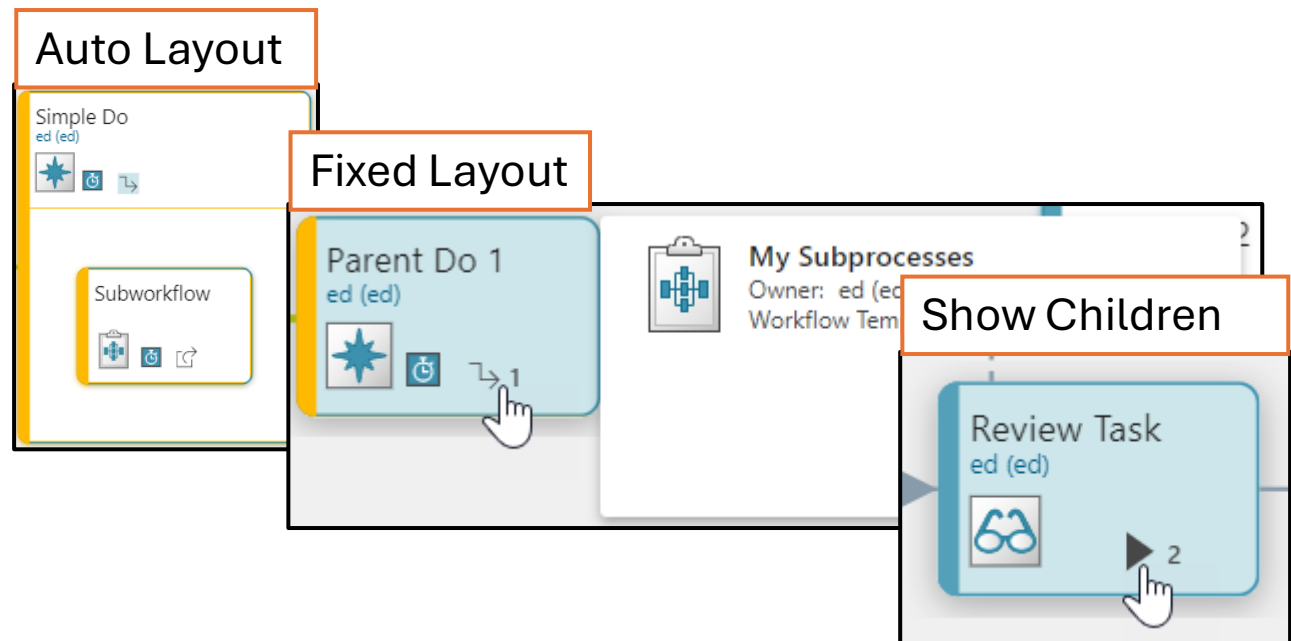
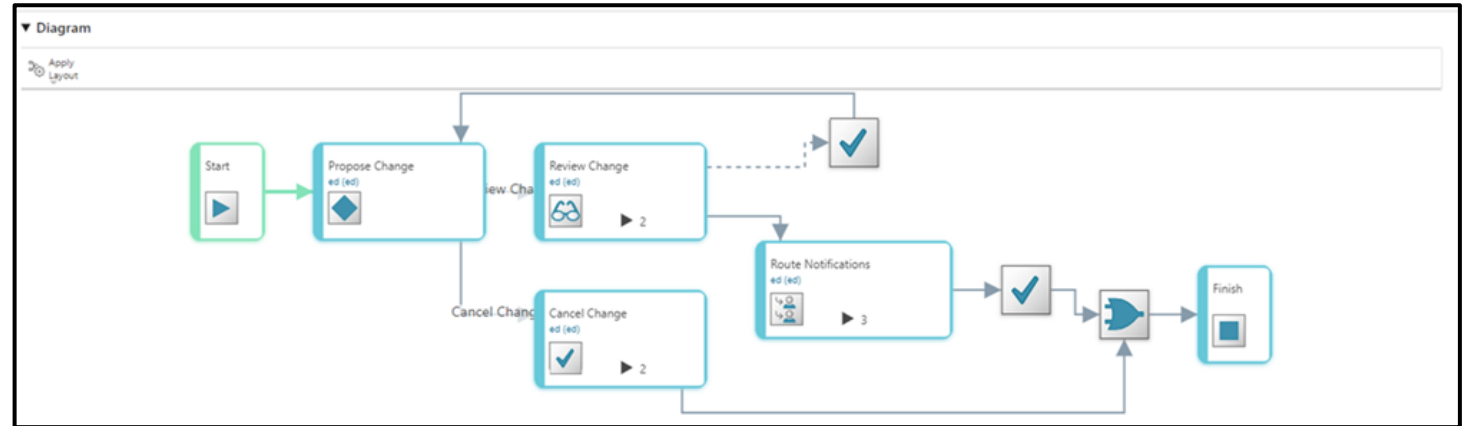
Click to add a value

Workflows

In a workflow, if a task's **Start** action fails due to an error, the parent task appears in the Inbox. You must then complete the task after resolving the issue.

Starting in 2406, in such cases, the error is displayed on the parent task and identifies the child task that includes the error.

The child task opens automatically in the **Diagram**'s graphical view on the **Workflow** tab.

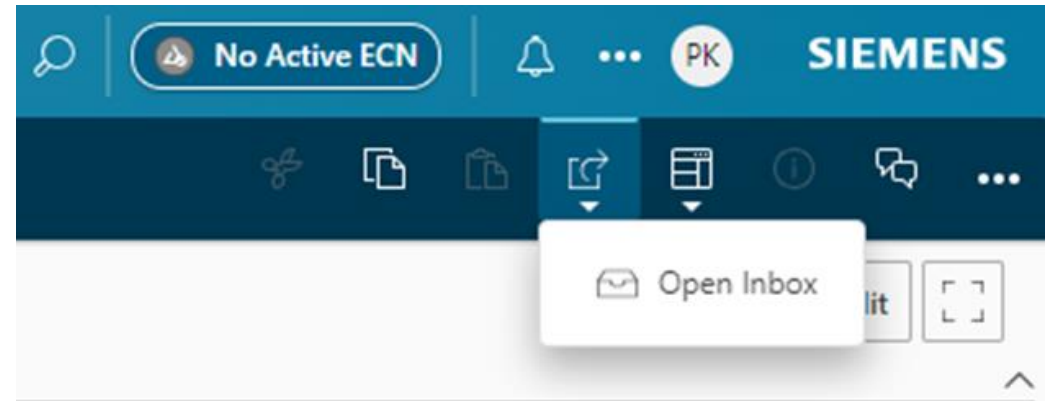


Inbox

To help you reassign tasks, manage surrogates, or see if someone is out of the office, you can view their profile page.

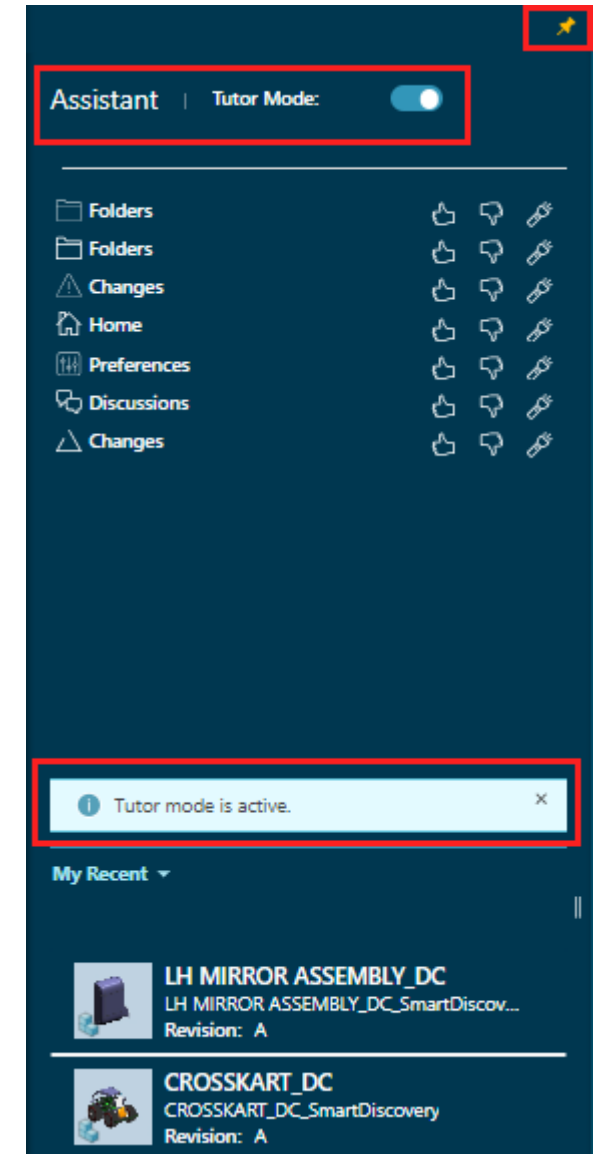
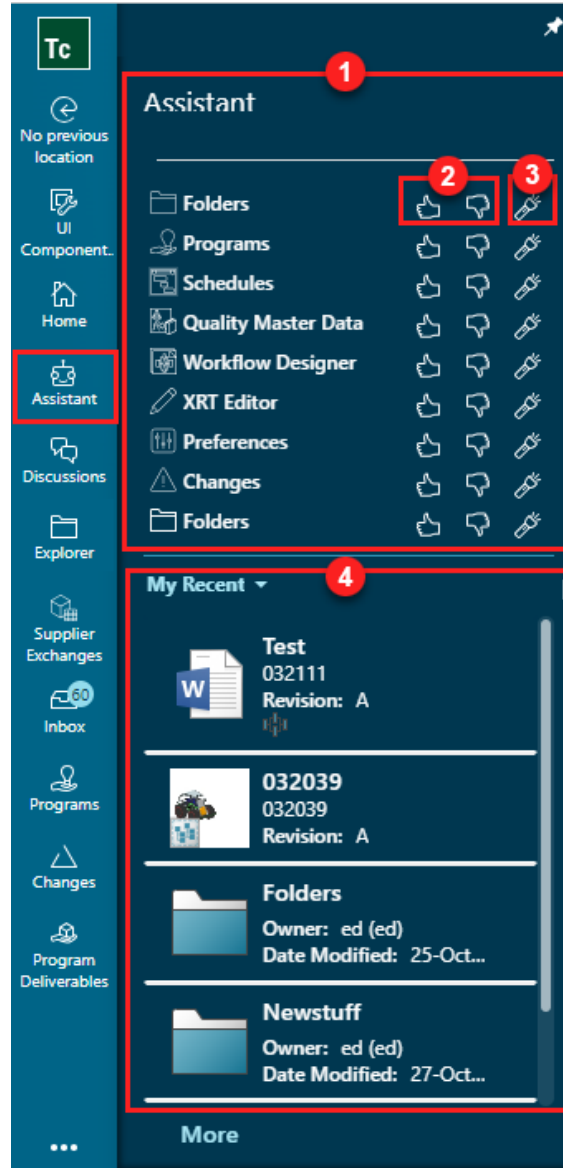
For example, if a workflow is not progressing because a particular user has not responded, you can view whether that user is out of the office.

As a privileged user, you can also access their inbox to reassign a task.



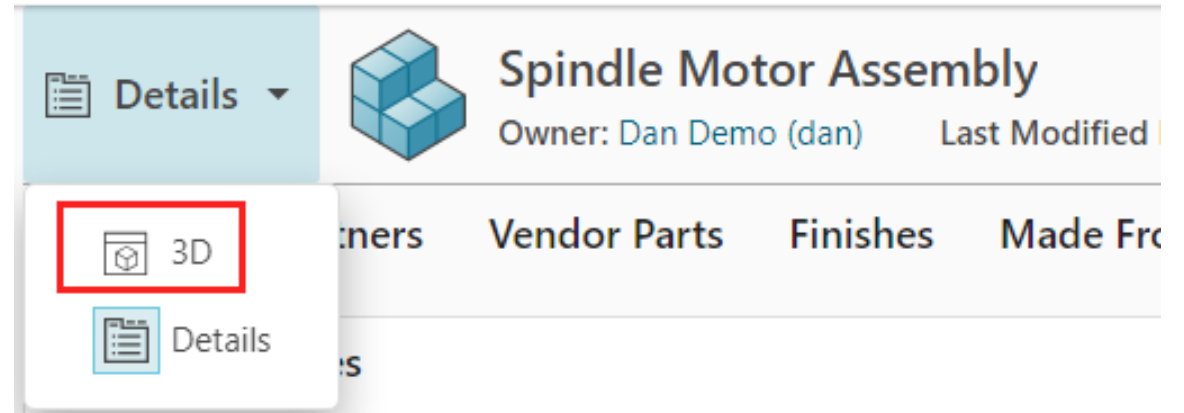
Guided Navigation

- The **Teamcenter Assistant** suggests the next possible actions to perform and provides the relevant data required to perform them.
- These suggestions are based on the context, history, and usage frequency of actions performed by other previous users belonging to the same role and group.
- You can use the **Tutor Mode** to train the Assistant to learn a preferred way to complete a task.



3D Tab

- Earlier, to display a model in the viewer, you had to click the **3D tab**.
- Now, to display the model in the viewer, you must switch to **3D** from **Details** by clicking **3D** in the list of available views.



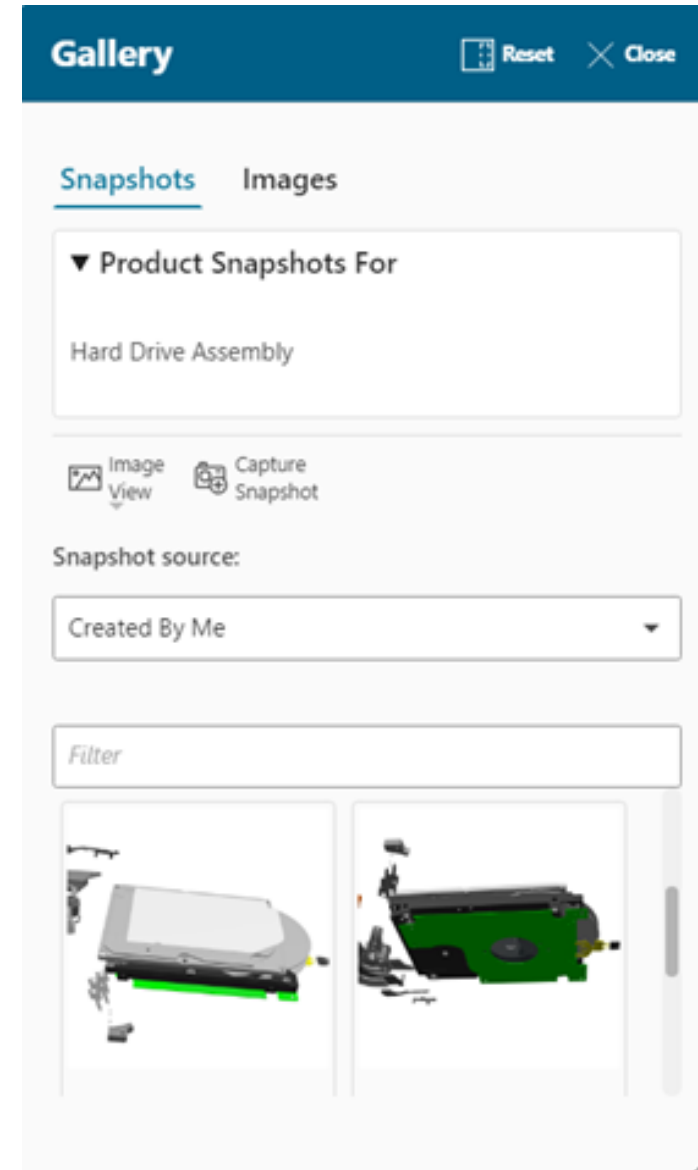
Universal Viewer

- Use the universal viewer to view object attachments.
- The universal viewer appears in an object's **Overview** tab if there are attachments for the object, or in a workflow task's **Overview** tab if there is an associated attachment.



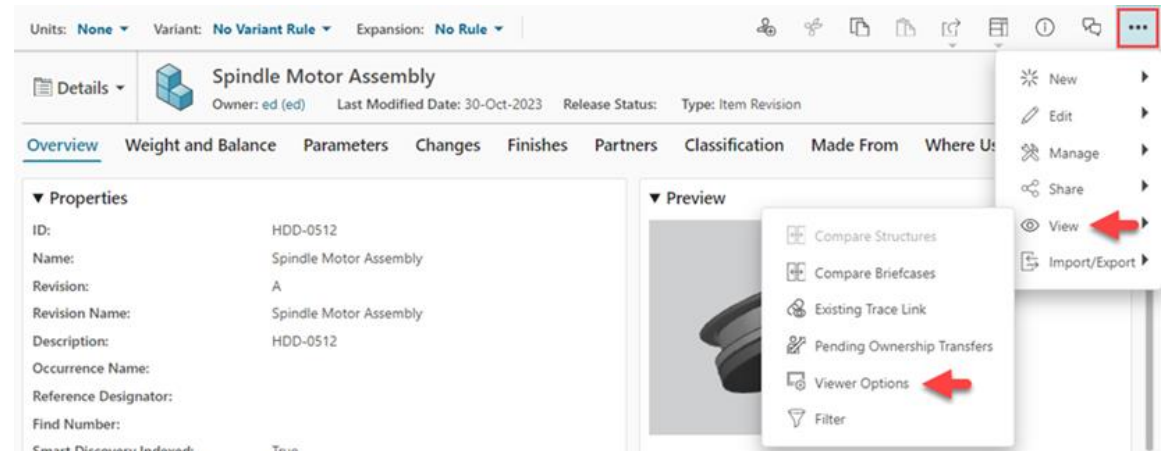
3D Viewer

- Earlier, you could move or resize only a few panels in the 3D viewer.
- Now, you can undock and move all panels around the browser window to your desired location. They can also be resized to take up less space. This helps you get the best screen layout for your working style.
- Parts in the exploded view in the 3D viewer can be captured in context, with the 3D data, within snapshots.



Viewer Options

- After opening an assembly, without opening the 3D viewer, you can access and alter available properties in **Viewer Options**.
- You can therefore change viewer settings before opening the 3D viewer, especially if the settings are likely to relaunch or reload the viewer.



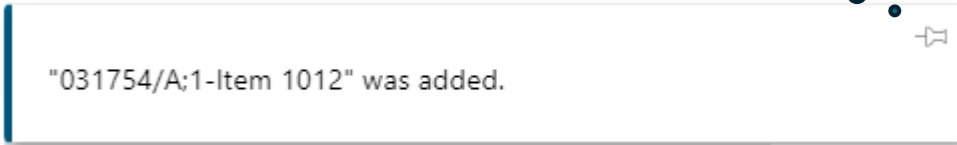
Notifications

The system displays notification messages.

You can pin a message so that it continues to appear in the window, and you can refer to the message text later during your work session.

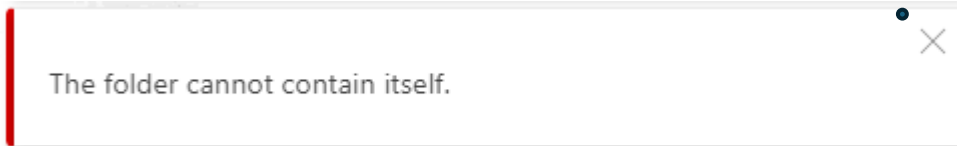
notification

Unpin to dismiss



error

Cannot unpin





Next Steps

Current Features, Future
Features, and Beyond!

Roadmap (current)

Active Workspace 6.3

Page-level toolbar

Details header (preview)

Layout Chooser

Teamcenter 2312

Session controls

Details header

View switcher

Card styling

Three-view layout

Roadmap (future)

Teamcenter 2406

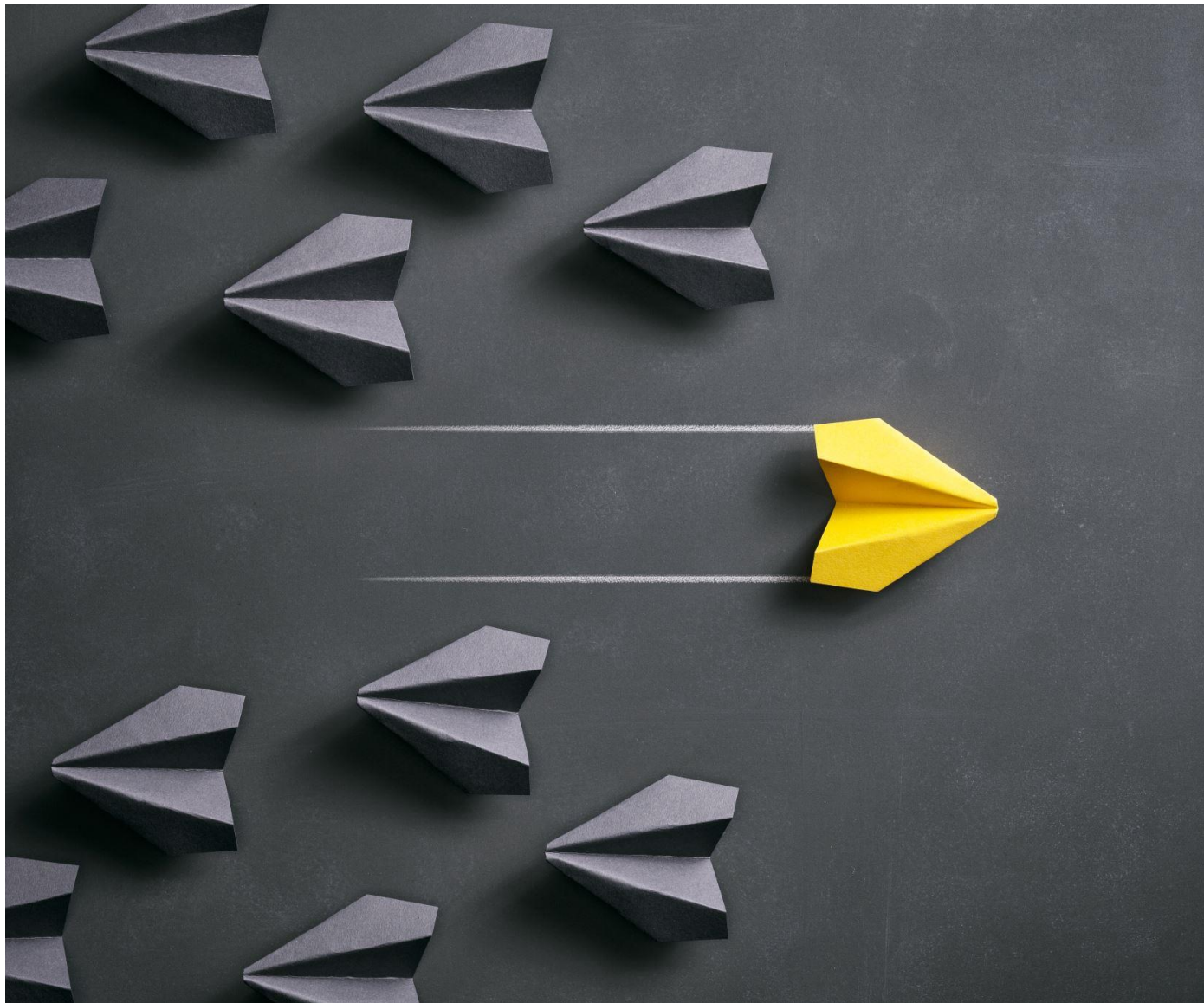
Selection indicator
Layout slot styling
Splittable context bar
Open object header
Layout manager

Teamcenter 2412

Command efficiency for opened objects
Layout manager for collection pages
Combined section & objectSet
Command separators

And Beyond!

- Multiple opened objects
- Consolidated settings
- Multiple details view
- 3D viewer without structure tree
- Enhanced narrow/embedded mode



Active Workspace User Interface

- You've seen...
 - The new user interface in Tc2312.
 - Final UI changes are expected in Tc2406.
 - Branding opportunities.
 - Multiple "theme" entries are no longer supported (one only).
 - Roadmap
 - AW 6.3, Tc2312, Tc2406, Tc2412, and beyond.





References

- <https://blogs.sw.siemens.com/teamcenter/whats-new-in-teamcenter-2312/>
- <https://blogs.sw.siemens.com/teamcenter/2024-teamcenter-beta-testing/>