Active Workspace 2.4
What’s New
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Chapter 1: Common productivity

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Chapter 1: Common productivity

Common productivity enhancements

Active Workspace 2.4 provides the following productivity enhancements:

• Explore Active Workspace learning videos on YouTube:
  o Welcome to Teamcenter Active Workspace
  o Search with Active Workspace

  ![YouTube Video](image)

  **Note**
  These and other videos are available in the Teamcenter 10.1.4 documentation video gallery. Local language versions of videos are provided through the Global Technical Access Center (GTAC).

• Increase efficiency by selecting multiple objects and perform tasks, such as **Copy**, **Cut**, and **Reassign** tasks or **Add/Remove** favorites. Multiselection is available for **Inbox**, **My Changes**, **Search Results**, and more.
• Access the **Create** tool by URL:
  
  o URL-accessible by the object type that you want to create: single default object type, multiple object types to select, or no default object type.
  
  o You can easily tailor commands to create specific objects important to your role.
• Implement modern universal widgets for HTML and XRT:
  o Property renderers are clean and consistent.
  o Formatting to make the user interface more responsive.
  o Guidance text helps you enter accurate data.
  o Client-side validation provides immediate feedback.
Chapter 1: Common productivity

- Reuse content through references for authoring ease and efficient XRT style sheet maintenance:
  - Groups and roles
    Although pages often differ in content, you can now reference and reuse the content that is common among pages.
  - Object types
    Include the Attachments page that shows documents and files for parts, commercial parts, and so on.

- Show primary objects from secondary objects. This functionality no longer requires custom run-time properties. Some examples:
- Show change orders that a part is in.
- Show documents that are using the file (dataset).
- Show the defining trace links.

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<th>Defining Objects</th>
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<tr>
<td><strong>OBJECT</strong></td>
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- Arrange and group tiles on the home page.

Drag to move to an existing group or create a new group
• Protect tiles from unpinning on the home page.
Chapter 2: Systems driven product development (SDPD)

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Chapter 2: Systems driven product development (SDPD)

Requirements management enhancements

Active Workspace 2.4 now lets you edit requirements while working in the **Table view**:

- Access rich text editing in the information panel.
- Modify view of requirements hierarchy in the **Table view**.
- Edit—with proper object access—the properties of a requirements object in the **Table view**.
Chapter 2: Systems driven product development (SDPD)

Systems engineering enhancements

Active Workspace 2.4 provides the following systems engineering enhancements to architecture models:

- Create or remove ports.
- Edit port direction.
- Control port display.
- Edit port and connection labels.
- Handle multiconnection ports.
- Move connections.
- Save and recall architecture models.
- Send architecture models through workflow.
Product line engineering features

Active Workspace 2.4 provides a new feature focus area: product line engineering. These features help you manage increasing product complexity by dividing work among disciplines and managing the analysis requests.

Note
These features are available with Teamcenter 10.1.4 or later only, not with Teamcenter 9.1.x.

• Manage performance targets against key system attributes:
  o Specify configurable targets that capture market and engineering solution needs.
  o Define a consistent measurement set to determine system viability.
  o Communicate targets and measurement criteria for collaborative analysis.

• Enable consistent communication across domains with analysis requests.
Define rules for communication

Specify analysis in conformance with rules

Capture results of analysis

- Define consistent and reusable communication for engineering collaboration.
- Specify system model information for analysis along with up-to-date inputs values.
- Manage and capture resulting analysis data—including models—to make architecture choices in one place.
Chapter 3: Visualization

Visualization enhancements

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Chapter 3: Visualization

Visualization enhancements

Active Workspace 2.4 provides the following Visualization enhancements:

• Experience Massive Model Visualization (MMV):
  
  o The Visualization Data Server is an optional new component that improves Visualization performance by caching structure and JT part data.

  o MMV server rendering lets you visually navigate complete products—even when the products are extremely large.

  o Massive model visualization server rendering lets you visually navigate complete products.

  o The Visualization Data Server is the MMV enabling server component that allows indexed, configured Teamcenter data to be viewed in MMV mode. VDS is an optional new component that is only necessary for installations using MMV. It caches structure and JT part data to make it readily available for MMV viewing.

  o Extend your existing MMV rendering:
    
    ■ Configured content that uses a new structure indexing framework.

    ■ Grid GPU rendering server that leverages memory capacity, geometry sharing, and high-end graphics.

    ■ Refined MMV rendering techniques conserve more system resources by omitting rendering of graphical elements that users cannot see.
Use image capture markup:

- Active markup indicators on image captures.
- Enhancements to the user interface for image capture and markup.
- Context where the image capture that is created is shown and allows you to change it.
- Show context on image capture when it is opened out of context to allow opening of the context.
**Employ geometric analysis—Measure and Query:**

- Request information on elements such as points and vertices (coordinates), edges (length and end points), surfaces (area), and parts (volume and center of gravity).
- Measure the distance between any combination of points, vertices, edges, surfaces, and parts.
- Measure the angle between applicable selection combinations (when two lines form an angle).

**Employ geometric analysis—section model clipping and geometry capping:**
o Create sections in a specific orientation to view interesting cross-sectional views of your data.

o Edit sections to change their position and orientation.

o Optionally disable some sections while leaving other sections active to control which section views are currently visible.

• Employ geometric analysis—volume and proximity filtering:
  o Define volume filters using the bounding boxes from a part or collection of parts as the starting point.
  o Use volume filters to change what is visible.

  Volume Filtering

  o Apply proximity filtering by selecting a target part or parts to work with a relevant, nearby subset of your data.
Chapter 4: Reporting

Reporting features

Active Workspace 2.4 provides a new feature focus area: reporting. These reports let you generate summary reports to collect the wealth of information managed in Teamcenter:

- Basic visual reporting on a single property in the search results and in the structures shown in the list titles and 3D graphics.

- A home page Report tile that shows available Report Builder reports that you can run.
• Integrated reporting for sophisticated reporting including drill downs and external data source inclusion:
  o My Reports tile to view saved reports and reports run in the background.
  o Pin reports to your home page for quick access.
• Simple print interface to create a report on a single object.
Chapter 5: Maintenance, repair, and overhaul (MRO)

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Chapter 5: Maintenance, repair, and overhaul (MRO)

MRO enhancements

Active Workspace 2.4 provides new service-level management enhancements that combine product development with a service planning solution that supports the use of design and manufacturing data to improve accuracy for the service and the product:

• Manage the physical structure, record the usage, and update the installed parts.
• Create a deviation to help ensure that only authorized parts are installed on the asset.
• Record utilization to update the usage or the asset and capture life, measurements, and dates.
• Edit a table to allow efficient physical part data capture in a spreadsheet.
Chapter 6: Structure

Table column configuration, sort, and edit .......................... 6-1
Chapter 6: Structure

Table column configuration, sort, and edit

Active Workspace 2.4 lets you perform the following table column enhancements:

- Configure table columns:
  - Use export utilities to specify personalized table column configurations in a structure.
  - Use column arrangement to add, remove, and reorder the columns that appear.
  - Configure columns for data types such as design, parts, requirements, and so on.
  - Active Workspace remembers your configuration across sessions and devices.

- Conveniently make multiple property updates to content in a structure:
  - Edit multiple objects at a time.
  - Edit all properties in the table whether they are on an occurrence, a revision, or a form.
- Leverage property presentation and edit capabilities available in the properties display: strings, numbers, and LOVs.

![Edited properties highlighted in yellow](image-url)
Chapter 7: Change workflow processing

Change workflow processing enhancements ........................................... 7-1
Chapter 7: Change workflow processing

Change workflow processing enhancements

Active Workspace 2.4 updates change and workflow processing to include the following enhancements:

- Use the **In Process** column that indicates the *in workflow* condition:
  
  **Note**
  
  This feature is available with Teamcenter 10.1.4 or later only, not with Teamcenter 9.1.x.

  - Lets you easily configure as a table column to filter, group, sort, or control column visibility.
  - Applies to any object as a persisted object property.

- Start workflows based on **Target** properties.
  
  **Note**
  
  This feature is available with Teamcenter 10.1.4 or later only, not with Teamcenter 9.1.x.

- **Workflow Viewer** tile consistency for a better look and feel:
  
  - Show status with coloring on tiles and decision paths.
- More tile information for task name, due date, completion date, and assignees.
- Expand or collapse subtasks using grouping display.

- Improved resource pool assigning to any group or role:
  - Easily assign resource pool signoff team to users, to a specific group, or to a role.
  - Show all roles when searching by group or by a role.

- Navigate more intuitively with a consistent look and feel.

- Perform route task or acknowledge tasks.
• Reassign multiple tasks simultaneously.

Note
This feature is available with Teamcenter 10.1.4 or later only, not with Teamcenter 9.1.x.

• Submit multiple objects as targets to a single workflow.
• Set task duration by work week.

**Note**

This feature is available with Teamcenter 10.1.4 or later only, not with Teamcenter 9.1.x.
Chapter 8: Document management

Document management enhancements

Active Workspace 2.4 provides the following document management enhancements:

• Pan and zoom using a pinch gesture that works the same way as other mobile applications.

• Ensure that printed and rendered documents comply with your company standards for stamps and watermarks:
  - Ensure that printed and rendered documents comply with company standards for stamps and watermarks.
  - Administrator defines standards for all clients via the rich client.
  - Configuration and results matches the print stamp and watermark that appears in rendered or printed file.
Ensure that reference properties such as **Workflow Status** reflect the latest values.
Chapter 9: Active collaboration

Active collaboration enhancements ........................................................................ 9-1
Chapter 9: Active collaboration

Active collaboration enhancements

Active Workspace 2.4 lets you experience active collaboration's new secure enterprise-wide social feedback:

• Follow (subscribe to) to objects and events:
  o Events include Checked In or Checked Out, Modified, Assigned, and so on.
  o Follow events on objects.
  o Follow conversations or questions.

• Follow a specific object or all objects of a particular type.

• Employ notifications:
  o Event feed to track what you follow.
  o Toast notifications and a new notification center.

• Social summaries like answer counts and rating details display on objects.
Chapter 9: Active collaboration

- **Question** tile provides quick access to community questions and answers.

- **Collaboration** tab now appears only when commentary exists on an object.

  - Active collaboration no longer requires editing XRT files; the installation activates the **Collaboration** tab for you.

  - Administrators can delete commentary objects for item revisions using the `s2clsocial_delete_utility` utility. For example, at the end of a project, you can delete the item revision commentaries that are releasing as part of a product.
Chapter 10: Search

Search enhancements ........................................... 10-1
Chapter 10: Search

Search enhancements

Active Workspace 2.4 provides the following search enhancements:

• Indexing, synchronization, and query performance improvements.

• Search syntax for property-specific searching:
  
  o Build property search criteria:

    Name:retainer
    Name:"Spare Wheel Retainer"
    "Owning user": john
    "Owning user": "john smith"

  
  o Use the display name for the properties.

  o Combine property-specific and general search criteria:

    Name:retainer frd

  
  o Use multiple properties:
Property-specific search results receive higher relevancy.

- Visual reporting of search results available in all search displays:
  - Common colorization across the chart, results tiles, and filters.
  - Global toggle to turn color coding on or off.

- Wildcard specific to Active Workspace. Wildcard preference options include:
  - User search criteria are not altered (no wildcard added automatically).
  - Search engine suffixes wildcard (*) to user values. For example, part becomes part*.
  - Search engine prefixes wildcard (*) to user values. For example, part becomes *part.
  - Search engine prefixes and suffixes wildcard (*) to user values. For example, part becomes “part*”.

- Active Workspace remembers your search layout: Table, List, and Summary.

- Run Apache Solr as a service. See Deploying and hosting.

- Search deployment: index available during re-indexing. See Deploying and hosting.
Chapter 11: Deploying and hosting

Deploying and hosting enhancements

Note

For complete hosting customization information, see the following documentation:

• *Active Workspace Hosting Programmers Guide* provides details about using programming to add the functionality of Active Workspace into your custom application. For example, your company has a custom application that tracks inventory levels and purchasing information. If you want to add an Active Workspace panel that also displays part information from Teamcenter, this document provides the information. The *Active Workspace Hosting Programmers Guide* is available on the Global Technical Access Center website.

• *Hosting Active Workspace in Other Products* provides instructions on Active Workspace functionality that is pertinent to the host application. This documentation is delivered in the same documentation set as this *What’s New* documentation.

Active Workspace 2.4 provides the following new deployment and hosting (extension) enhancements:

• Active Workspace no longer requires an Internet connection to install the product. All libraries required for the installation are included with the installation package. This enhancement provides the following benefits:
  o Eliminates key issues for highly secure environments.
  o Eliminates Apache Maven as a pre-installation requirement.
  o Eliminates legal approvals for open source content.

• Run Apache Solr as a service:
  o Install Solr as a service on Windows or as a daemon on UNIX.
  o Autorestart the service on machine reboots.
• Secure access to Apache Solr now lets Teamcenter server communicate with Solr across a secure (HTTPS) connection.

• Hosting lets you access Active Workspace functionality, such as searching for an Active Workspace object, while working in the host environment.

• Active Workspace now provides a highly available index:
  o Enhanced flows for synchronization, clean, and refresh indexing.
- Incrementally re-index large amounts of impacted data.
- Does not delete the complete index and allows you to continue working.
Chapter 12:  Customization

Customization enhancements .............................................. 12-1
Chapter 12: Customization

Customization enhancements

Active Workspace 2.4 provides the following customization enhancements:

- Customizing the Active Workspace client at the lowest level now uses a code scaffolding technology called Node.js and gulp. Previous Active Workspace versions used Maven archetypes.

- The memory amount required to compile a custom client has increased. For more information, see Active Workspace Deployment.

- XML style sheets now can be hierarchical using injection, which allows modularity and flexibility. To inject an existing XMLRenderingStylesheet dataset into the current style sheet directly, specify the name of the dataset. To inject indirectly, specify the name of a preference that contains the dataset name.

- Protect tiles from unpinning. For more information, see Common productivity enhancements.
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