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Ingenuity for life

What's new in Teamcenter 11.4 and Active Workspace 3.4

Delivering more robust out-of-the-box capabilities so manufacturers can improve productivity and efficiency

Benefits

- Better orchestration and traceability of ALM-PLM workflows for greater cross-domain collaboration
- Greater flexibility in management of 1D and behavioral models
- Faster and easier CAE simulation setup, execution and monitoring
- Familiar usage model for a range of PLM functions within Microsoft Office and Adobe Creative Cloud
- Rapid deployment of technical publishing using an administration data and publishing toolkit

Summary

With each release of the Teamcenter® software product lifecycle management (PLM) solution suite from Siemens PLM Software, we can help you include more people and processes across the product lifecycle, ultimately delivering greater returns on your PLM investment.

Reach more people – Active Workspace makes it easy for people in different locations and functional areas of your business to access Teamcenter from a web browser, on any device, and within the design and office applications you use every day. New users can easily gain access to the product data in Teamcenter, whether it's visibility to the bill of materials (BOM), engineering

changes, or CAD-neutral product designs, to help them be more productive and make better product decisions. Now you can configure role- or task-based workspaces to include only relevant content such as stylesheet content, pages/tabs and pertinent properties in the columns of tables.

If you haven't looked at Active Workspace lately, it's worth seeing how many capabilities across the portfolio are available in Active Workspace. With this release, Microsoft® Office users can directly view and edit Microsoft Word, PowerPoint® and Excel® files within the web browser, without a plug-in or any download. Users of Adobe® Illustrator®, InDesign®, and Photoshop® can revise, open, edit and save illustrations in Active Workspace.

The new Teamcenter Visualization virtual reality (VR) add-on module supports mainstream VR devices such as the HTC Vive™, Oculus Rift™ and the zSpace® device. Users can perform form, fit and function studies, as well as conduct design reviews by immersing themselves in the virtual world of the product's digital twin.

This release also introduces Smart Discovery, which organizes product data in a more flexible way, ensuring that everyone can navigate and work with the data in a way that is intuitive for them. Every component across your entire product line understands its own attributes, its position in the product and how it integrates with neighboring components.

What's new in Teamcenter 11.4 and Active Workspace 3.4

Benefits *continued*

- Simplify BOM creation, modification and collaboration with user-friendly, web-based interaction, including tree-based view and navigation
- Organize product data in a more flexible way, ensuring that everyone can navigate and work with the data in a way that is intuitive for them.
- Improve communication efficiency and collaboration during label and artwork proofing
- Consolidated summary view for change and interactive relation browser make it easier to understand and manage changes
- Simplified requirements capture, editing, organization and tracing of requirements for end-to-end traceability and impact understanding
- View and edit Microsoft Office files within the web browser, without a plug-in or any download
- Revise, open, edit and save Adobe illustrations from Active Workspace
- Support compliance initiatives by capturing supplier material declarations efficiently through supplier material database integration
- More visibility into compliance processes with enhanced dashboards, and more flexibility managing compliance processes
- Holistic materials data management integrated with CAD for a more complete view of materials used in items
- Better traceability of materials with tracking changes to material properties
- Initial integration with Maintenance Aware DDesign (MADe) Product Safety & Reliability modeling environment
- Improved manufacturing usability and performance
- Collaborate more easily to tailor

Reach across business processes

Teamcenter provides a flexible portfolio of focused applications that enable you to strategically grow your PLM maturity in a way that makes sense for you.

Requirements usability takes a major step forward with 3.4, with improved Microsoft Word document and Excel spreadsheet import, tree navigation of requirement specifications, direct editing in Word, improved HTML-rich text editing including features like embedded equations, and easier trace-link creation.

Continuing to simplify the process of capturing supplier data to support holistic compliance grading, Teamcenter now offers a highly automated integration into the BOMcheck supplier declaration database. With it, compliance officers can more easily gather supplier disclosure data for RoHS, REACH, and other substance regulations.

Reach greater returns – With each release, Teamcenter has a mission to make our software easier to deploy, manage and maintain. We want to minimize the cost of installation and ongoing enhancements, so your IT team can help your business respond more quickly to market changes and trends in the age of digital disruption.

In addition to Teamcenter 11.4's enhancements to portfolio applications, now you can more easily create unique PLM applications that suit your business. You can configure role-based workspaces to remove unwanted or irrelevant content, such as tabs, commands and columns in tables. Our comprehensive support for a declarative UI framework simplifies how your IT team can deliver an adaptive PLM environment tailored to your unique business processes through configuration of re-usable components, instead of writing custom software code. With this release, you can more easily collaborate with other Teamcenter customers using the industry preferred tool, GitHub, to find and re-use extension examples.

We also provide a mature UI pattern library showcase that you can reference for new declarative UI elements added in Active Workspace 3.4.

Start with PLM

Software management

This release of Teamcenter continues to enhance support for cross-domain interoperability. Leveraging the linked data framework, this release supports expanded user interaction, workflow coordination, and the ability to connect the software architecture to software implementation. To more readily demonstrate compliance across the product and software requirements, you can create or access Polarion Live Documents and establish cross-domain relationships between them. Since change is a critical part of any design process, you can orchestrate product and software change workflows from within Teamcenter, and initiate product changes along with any associated Polarion software changes with complete traceability to the Product Requirement, Change Request, Change Notice or tasks. And lastly, you can easily connect or link the software architecture defined in the Teamcenter Systems Modeler to the software implementation created in Polarion ALM. All of these enhancements help you to better visualize the complete set of information associated to the software release.

Model management

For model management and co-simulation, Teamcenter provides integrated client access to Active Workspace-based Open, Edit and Save commands. Via a new command line import and export/update capability, Teamcenter can now be the shared model repository for all non-integrated modeling tools. Providing support for behavior modeling, a direct integration with No Magic enables greater usability during analysis as well as the ability for the Teamcenter

What's new in Teamcenter 11.4 and Active Workspace 3.4

Benefits *continued*

Teamcenter with declarative UI extensions and elements

- Remove unwanted or irrelevant content with role-based workspaces
- Improve design review productivity using an immersive virtual reality environment
- Reduce visualization costs using client-side rendering for pan, zoom and rotate
- Reduce total cost of ownership with simplified deployment and maintenance
- Quickly and cost-effectively subscribe and go with cloud-hosted, preconfigured product data management (PDM) for NX or Solid Edge
- Integrate across more business tools and processes using new Active Integrations

Analysis Request to manage and document the analysis results.

Simulation process management

The new release includes significant improvements to Simulation Process Management in the areas of desktop analysis, tool integration, derivative structure creation, structure automation, dashboards, integration with the Simcenter™ portfolio, and the tool launch framework. Using Active Workspace, you can quickly view and access large numbers of CAE files that are captured across multiple datasets in a CAE item revision. To facilitate tool integration, you can submit simulation jobs on multiple item revisions simultaneously and submit, run and monitor simulation jobs on the server or remote machines from any device. Greater control over structure naming enables you to easily identify a derived structures deck, and when generating new derivatives from an existing structure you can copy and tie the pedigree from the existing structure to the new one.

Content and document management

In this release you can leverage the Teamcenter Office Online solution to view and edit Microsoft Office files directly in Active Workspace. The Open in Office Client feature provides complete access to Microsoft Office features. To make the installation process easier, you can now install the Teamcenter Office Online feature using the Teamcenter Deployment Center. In addition, this release supports Active Workspace hosted in Adobe Creative Cloud tools. Using Illustrator, InDesign, and Photoshop, you can open, edit, and save Adobe files. Leveraging Active Workspace, the integration also provides you with access to a range of PLM capabilities from within these Adobe applications. In addition, Teamcenter customers now have access to an advanced proofing solution that includes collaboration capabilities, annotation and markup and faster viewing speeds.

Bill of materials (BOM) management

In addition to the introduction of Smart Discovery, which organizes product data in a more flexible and intuitive way, we've made it easier to work with BOMs in Active Workspace. The new tree view allows you to expand or collapse branches of your product structure, as well as provide strong system performance regardless of structure size. Multiple occurrences of the same item in your structure are packed, showing a quantity at the appropriate line item. You can now easily search within structures, as well as specific configurations, to quickly find what you need and enhance real-time collaboration.

Extend the value

Requirements management

This release makes significant improvements in capturing, editing, organizing, and relating/linking requirements into the entire product lifecycle. Feature and usability improvements include:

- Improved document import with keyword/rule-based requirement recognition and ability to change subtypes before save
- Simplified Excel import as well as Excel edit round-trip (export, edit, import)
- Requirement specification outline/tree navigation and cross-probing to outline and document location are aligned
- Microsoft Word editing of requirements content using desktop Word installation (with no additional installation/add-ons)
- Extended HTML/rich text editing including additional markup and math equations
- A new scalable tracelink creation dialog that supports many-to-one and one-to-many link creation (including subtype links) to easily link many different parts of the product lifecycle

What's new in Teamcenter 11.4 and Active Workspace 3.4

Manufacturing process management

The Teamcenter manufacturing product suite has been enhanced significantly. Manufacturing Process Planner (MPP) version 11.4 now includes richer capabilities in the body-in-white (BIW) planning area for automotive customers and in the supplier collaboration solution around alternatives and the use of the briefcase functionality, along with several improvements to the usability and performance of the automotive BIW solution. Easy Plan (EP) 2.1 has been updated with improved capabilities to the production process planning solution for industrial engineering users. It was also enhanced to support electronic work instruction authoring on the web platform as part of the closed-loop manufacturing (CLM) solution. Electronic Work Instructions (EWI) 3.4 now includes improvements to the online viewer. There is also a method for generating an offline work package of work instructions so that it can be accessed when there is no connectivity to Teamcenter. Process planning for shipbuilding (Next Generation Planning – NGP) is now available with the NGP 1.4 release. It is targeted at the shipbuilding industry and is based on the 4th Generation Design (4GD) framework.

Transform your business

Environmental compliance and product sustainability

New capabilities to support the supplier material disclosure process, as well as enhancements to the compliance management and compliance user experience are available with this release. With the new Teamcenter BOMcheck integration, compliance officers can streamline the process to request, collect and validate supplier declarations, in support of RoHS and REACH reporting. New pre-import validation capabilities allow you to add your own custom validations before importing material supplier declarations. Enhancements to the Teamcenter International Material Data System

(IMDS) integration upload capabilities allow work-in-progress data sheets to be shared between suppliers and OEMs. Enhancements to the compliance and composition dashboard add more flexibility and visibility into your compliance processes. Compliance officers can now override compliance status returned from the compliance checker. And the compliance dashboard includes options to view only the latest compliance status results. Also on the dashboard, the user now has the ability to view the material and substance composition for internal parts that are represented by one or more supplied parts. There are new methods to import the conflict minerals reporting template into Teamcenter, and stay up-to-date with the latest conflict minerals reporting requirements with support for the latest reporting template.

Integrated product safety and reliability

This release includes an initial integration with PhM's Maintenance Aware Design (MADe) technology with Teamcenter, enabling product safety and reliability modeling to participate in the product lifecycle. Initially MADe models are stored/managed in Teamcenter via an integration with MADe. Inside Teamcenter, those models can participate in standard PLM processes and services such as change, workflow, variants, program planning, and more – all of which enable organizations to build safety and reliability into their product development process.

Explore the PLM platform

Active Workspace

Usability in Active Workspace 3.4 is improved with tree-based navigation, drag-and-drop enhancements, keyboard shortcuts and a quick access panel. You can more easily accomplish tasks and understand your data faster and with less clicks due to improved “flattening” of the UI.

A new full-screen viewer utilizes more screen for you to view and markup rich content. This viewer now allows for selecting from a list of files to directly select on a single page the file to view rather than cycling through them. You also have more options for your screen layout, with a draggable vertical sash and collapsible sections so you can show more, show less, drill into or suppress content. You can configure role- or task-based workspaces to include only relevant content such as stylesheet content, pages/tabs and pertinent properties in the columns of tables.

Search is also improved. With Active Workspace 3.4, you can filter and narrow search results with numerical value filters, so you can get results only in the desired range, such as width between five and 25 mm. Your administrators can configure search pre-filters to save time by limiting results to only valid choices when searching to add to a table of data. Your administrators can also enable search and filters using form property values without complicated schema changes.

Active Workspace 3.4's comprehensive support for a declarative UI framework simplifies how your IT team can deliver an adaptive PLM environment tailored to your unique business processes through configuration of re-usable components, instead of writing custom software code. With this release, you can more easily collaborate with other Teamcenter customers using the industry-preferred tool, GitHub™, to find and

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re-use extension examples. The new release also provides a mature UI pattern library showcase that you can reference for new declarative UI elements added in Active Workspace 3.4.

Integrated material management

Enhancements to integrated material management include the ability to assign materials to parts under an assembly, providing a more complete view of materials used. This leverages new capabilities in NX™ software to support more holistic materials data management with an integration to CAD. Support for coatings and surface treatments allows you to understand changes to material properties and provide better traceability back to source materials.

Users can leverage compound materials to support coatings that are applied to materials and understand impacts on mass calculations and compliance.

Lifecycle visualization

Teamcenter Visualization VR is a virtual reality (VR) add-on module for Teamcenter Visualization Professional or Teamcenter Visualization Mockup. The use of VR systems can be an effective tool for many parts of the organization by enabling the digital twin to be reviewed in a life-size, virtual environment with true 1:1 scale realism. You can perform typical digital mockup (DMU) operations such as sectioning, positioning, creating mark-ups and sharing the information with other users. This immersive evaluation environment is especially useful for conducting design reviews or performing manufacturing planning and serviceability evaluations. Operating in a VR environment can improve decision making by enabling you to better assess ergonomic factors such as sight lines, reachability and clearances so that you can resolve conflicts earlier.

Platform deployability

For NX and Solid Edge customers just getting started with product data

management (PDM), a new deployment option for Teamcenter Rapid Start is the cloud-hosted, preconfigured PDM solution for NX and Solid Edge® software. Teamcenter Rapid Start is delivered through software-as-a-service (SaaS) to support on-premise NX or Solid Edge CAD customers. The cloud-hosted, preconfigured PDM environment leverages Active Workspace for an easy, intuitive user experience. Siemens hosts and maintains the SaaS solution, so customers can simply subscribe and go. No IT expertise is required to operate and support Teamcenter Rapid Start SaaS. With the 1.1 release, Teamcenter Rapid Start SaaS is now available in English for Canada, Australia, Germany, Europe and the United Kingdom, along with the United States and Mexico.

Active integrations

In this release of Teamcenter, support for the integration of business tools and process has focused on three main areas. First is the enhancement of existing enterprise integrations including Oracle® E-Business Suite (EBS) and SAP® solutions. The Teamcenter Gateway for Oracle EBS now links buy items to manufacturers and refers to the manufacturer part numbers in Teamcenter as well as in Oracle EBS and supports Oracle EBS version 12.2.7. The Teamcenter Gateway for SAP S/4HANA now supports SAP S/4HANA 1709.

The new integrations include Teamcenter Reporting and Analytics Gateway for SAP and Teamcenter Product Cost Management Gateway for SAP. The Gateway for Teamcenter Reporting and Analytics leverages the integration of Teamcenter Gateway for SAP S/4HANA. The knowledge gained using existing Teamcenter/SAP integrations can be re-used, helping provide a lower total cost of ownership. The new Teamcenter Product Cost Management Gateway for SAP provides a commercial off-the-shelf master data synchronization from SAP Business Suite and SAP S/4HANA to Teamcenter Product Cost

Management. This integration enables you to re-use product variants from the ERP system to calculate similar products or new variants during the early stages of development.

To provide a streamlined and intuitive user experience, MCAD designers will be able to access the Teamcenter Gateway data in the Active Workspace window embedded in the native MCAD application. Supported by all the MCAD integrations (NX, Solid Edge, CATIA®, Creo®-Pro/ENGINEER®, SolidWorks®, Inventor® and AutoCAD®), you can easily search, access, and re-use information stored in Teamcenter, initiate data transfers in workflows or query and import information from enterprise applications like enterprise resource planning (ERP), manufacturing execution systems (MES), supply chain management (SCM) and customer relationship management (CRM) systems, all helping you make better decisions by accessing real-time data from SAP or Oracle solutions.

What's new in Teamcenter 11.4 and Active Workspace 3.4

Teamcenter solution	New features and enhancements	Customer value
START		
<p>Design management</p> <p>Teamcenter enables you to manage and share cross-domain design information, including mechanical, electronics, software and simulation in a single environment.</p>	<p>Software management</p> <ul style="list-style-type: none"> • Create relationships between Teamcenter and Polarion Live Documents • Orchestrate product and software change workflows from within Teamcenter • Link software architecture to software implementation <p>Model management</p> <ul style="list-style-type: none"> • Analysis Request integration with No Magic • Analysis Request included in Simcenter integration • Manage 1D models used by non-integrated tools <p>Simulation process management</p> <ul style="list-style-type: none"> • View and access CAE files captured across multiple datasets • Submit simulation jobs on multiple item revisions simultaneously and monitor from any device • Identify a derived structures deck and tie the existing structure's pedigree to the new structure 	<ul style="list-style-type: none"> • Leverage integrated data, workflows and design processes for cross-domain visibility • Easily manage, find and access all the relevant models and analysis results • Quicker CAE simulation setup and execution with greater monitoring flexibility

What's new in Teamcenter 11.4 and Active Workspace 3.4

<p>Content and document management Teamcenter document and content management capabilities enable you to fully integrate advanced authoring and publishing of structured documents and XML content as well as Microsoft Office documents within your PLM environment.</p>	<p>Document management</p> <ul style="list-style-type: none"> • Microsoft Office Online in Active Workspace • Adobe Create Cloud application integration with Active Workspace • Control of PDF rendering for specific points in workflow or by user request • Document style sheets for a document-centric user experience <p>Technical publishing</p> <ul style="list-style-type: none"> • Preview of publishing content includes translated content • PDF-based review and DITA map editing • Technical Publishing Kick Start <p>Label and artwork</p> <ul style="list-style-type: none"> • Advanced proofing solution with annotation and markup features 	<ul style="list-style-type: none"> • Familiar usage model for a range of PLM functions within Microsoft Office and Adobe Creative Cloud • Establish a document-centric user experience in PLM • Flexibility to directly refine document structure references • Enable rapid deployment using an administration data and publishing toolkit • Increase communication efficiency and collaboration
<p>Bill of materials management Teamcenter helps you effectively manage the bill of materials (BOM) as a critical part of design and manufacturing by providing clear, current and accurate product definitions, specific to the needs of teams and users.</p>	<ul style="list-style-type: none"> • Tree navigation and pack/unpack on Active Workspace • Enhanced in-context search and sharing • Enhanced analytical and migration tools to bring existing customers to Product Configurator • Guided variant configuration on Active Workspace • Initial exposure of Smart Discovery on Active Workspace • Engineering BOM authoring, configuration, view and navigation 	<ul style="list-style-type: none"> • Improved usability for BOM management on Active Workspace • Ensure effective collaboration on the right set of information • Enable more customers to leverage new capabilities • Ensure users are working with valid product variants at all times

What's new in Teamcenter 11.4 and Active Workspace 3.4

<p>Process execution</p> <p>Teamcenter can help you manage and execute the many processes required to get the right products to market at the right time.</p>	<ul style="list-style-type: none"> • What-if schedule analysis, Gantt time-scale zoom, and enhanced schedule deliverable support on Active Workspace • Simplified change overview tab and interactive relations browser • Simplified workflow viewer display and task signoff 	<ul style="list-style-type: none"> • Simplified user experience • Clearer overall view of change and related items
EXTEND		
<p>Requirements management</p> <p>Teamcenter capabilities for requirements management ensure the delivery of products that reflect the voice of your customer.</p>	<ul style="list-style-type: none"> • Microsoft Word/Excel requirement import improvements • Requirement outline/tree specification navigation with cross-probing • Microsoft Word requirement editing using standard Office desktop • Extended HTML/rich text editing including mathematical equations • Scalable tracelink creation and indication 	<ul style="list-style-type: none"> • Easier to capture requirements in most common forms • Zero learning curve requirement navigation without losing context • Zero learning curve requirement editing using Word • Standard extensions now available for HTML format requirements • Tracelink 'basket' allows users to pick what is linked to what to establish trace links. Once in place, visible indicators prompt the user with information.
<p>Manufacturing process management</p> <p>With a fully managed, single source of knowledge for products, processes, resources and plants, you can increase manufacturing's influence on product innovation to improve profitability, time-to-market and quality.</p>	<p>BIW Planning and Supplier Collaboration Briefcase</p> <ul style="list-style-type: none"> • Product scope support • Enhanced workflow for adding studies <p>Alternatives</p> <ul style="list-style-type: none"> • Ability to scope product • Create alternative with studies • Scope flow support from alternative <p>Usability and performance</p> <ul style="list-style-type: none"> • Embedded Teamcenter Manufacturing access in NX • Sharing connectors and mount information between NX and Process Simulate • Wrapped cycle time in Gantt chart • Recursive check-out/check-in support for process, work area and study <p>Easy Plan</p> <p>Production process planning</p> <ul style="list-style-type: none"> • Line balancing user experience improvement 	<ul style="list-style-type: none"> • Include suppliers in body-in-white planning • Plan and manage detailed manufacturing processes, including change • Wider solution support for production process planning, including line balancing and time study enhancements • Provide offline electronic work instructions to disconnected environments (suppliers, shop floors) • Online viewer can be configured to improve performance • Next Generation Planning for marine industry commercially available

What's new in Teamcenter 11.4 and Active Workspace 3.4

- Support Methods-Time Measurement (MTM) data card in the time module
 - Support shared resource
- Planning components for closed-loop manufacturing**
- Support revision of MEProcess and MEOP
 - Support workflow
 - Support manufacturing change notice (MCN)
 - Add/remove attachments
 - Configuration by date and effectivity
- Electronic work instructions**
- EWI offline**
- Generate EWI offline packages to provide access to information when there is no Teamcenter connectivity
- EWI online**
- Part information from 3D selection and part/tools table
 - WYSIWYG reports – support configured data based on a URL with parameters
 - MPP: EWI preview – sync with configuration changes
 - Pin a step to EWI landing page
 - Improved configured layout (leveraging declarative)
- Next-Generation Planning**
- Early planning**
- Basic planning capabilities: PM/ME detailing and operation detailing
 - Support attachments
 - Basic 3D view for product scope
 - Process plan lifecycle support (ME/PE/OP)
- Assembly planning**
- Initial weld support
 - 3D views: work package visual work instruction authoring (build authority)
- Change management**
- Support formal and informal change management
 - Support basic concurrent engineering changes

What's new in Teamcenter 11.4 and Active Workspace 3.4

	<ul style="list-style-type: none"> • Impact analysis for design changes • Manufacturing change notice management <p>General</p> <ul style="list-style-type: none"> • Migration guidelines and tools for BVR BOP to NGP data model • Interfacing to external systems (PLM XML export only) 	
TRANSFORM		
<p>Environmental compliance and product sustainability</p> <p>Teamcenter can help you establish a framework for sustainability and design for environment (DfE) initiatives with a substance compliance solution to support the development of green, environmentally friendly products.</p>	<p>Teamcenter BOMcheck integration</p> <ul style="list-style-type: none"> • Highly automated process to collect supplier declaration data from BOMcheck • Identify supplier parts with missing data and request the data from BOMcheck • BOMcheck notifies the supplier to login and process the customer request <p>More flexibility and visibility</p> <ul style="list-style-type: none"> • Option to override compliance status that is returned from CPM • Choose to see only the latest compliance results and historical compliance results on compliance dashboard • Ability to see the material and substance composition for internal parts that are represented by one or more supplied parts on the composition dashboard 	<p>Manage supplier declarations</p> <ul style="list-style-type: none"> • Data model to support representing a hierarchy of vendor parts • A pre-import validation framework to allow customers to add custom validation before importing MDSs • Enhanced upload capabilities to support the IMDS send method of uploading so that work-in-progress data sheets can be shared between suppliers and OEMs <p>Stay compliant with conflict minerals law</p> <ul style="list-style-type: none"> • Streamlined import of conflict minerals reporting template to Teamcenter • Support latest conflict minerals reporting template
<p>Product safety and reliability</p>	<p>Integrated product safety and reliability</p> <ul style="list-style-type: none"> • PhM Reliability, Availability, Maintainability, & Safety (RAMS) modeling environment works in concert with Teamcenter • Manage Maintenance Aware Design (MADe) model lifecycle in Teamcenter—change, configuration, workflow apply to MADe models • RAMS measurable attributes managed in Teamcenter are available inside MADe modeling environment. 	<p>Integrated Safety & Reliability models</p> <ul style="list-style-type: none"> • RAMS models under same control as other critical product assets • Models are configured, changed, etc. with product configuration settings • Shared/consistent cross-product target/attribute sharing/visibility

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PLATFORM		
<p>Active Workspace In order to maximize PLM usability, Teamcenter engages users with an intuitive and easy PLM user experience.</p>	<p>Improved visual appearance</p> <ul style="list-style-type: none"> • Full screen viewer provides more screen real estate to view and mark up rich content • Direct control of viewer via selection within a page • Tree-based navigation for structures • Draggable vertical sash to show more or less of a table • Collapsible sections to drill into or suppress content • Drag and drop into the primary lists in pages • Keyboard shortcuts to cut (Ctrl-x), copy (Ctrl-c) and paste (Ctrl-v) • Quick access panel to navigate to recently viewed objects, your favorites and clipboard contents <p>Improved user interaction</p> <ul style="list-style-type: none"> • Filter and narrow down search results using numerical ranges • Apply property-based pre-filter to help users retrieve context-sensitive search results via configuration • Index form properties onto business object to help search business objects on form properties without making schema changes • Navigate through data using explicit selection instead of gallery navigation • Localization added to login screen (3.4.1) <p>Document management productivity enhancements</p> <ul style="list-style-type: none"> • Directly view and edit Microsoft Word, PowerPoint and Excel files within Active Workspace in a web browser, without a plug-in or any download • Host Active Workspace in Adobe Illustrator, InDesign, and Photoshop so you can revise, open, edit and save Adobe illustrations 	<ul style="list-style-type: none"> • More flexibility for users to view content in the best way to complete the task at hand • Workflow task signoff embedded in primary display for a task • Improved productivity for Microsoft Office and Adobe users • More easily tailor Active Workspace for specific users, use cases and applications without writing custom code

What's new in Teamcenter 11.4 and Active Workspace 3.4

	<p>User experience enhancements</p> <ul style="list-style-type: none"> • Role-based workspaces to configure Active Workspace to specific roles and include only wanted and relevant content • Custom property renderers <p>Declarative UI/client definition</p> <ul style="list-style-type: none"> • More out-of-the-box content converted; the declarative UI allows for easy tailoring of that UI • Collaborate with other Teamcenter customers using the industry preferred tool, GitHub, to find and re-use extension examples • Mature UI pattern library showcase for new declarative UI elements added in Active Workspace 3.4, such as the tree table, maturity chevron and more 	
<p>Platform capabilities</p> <p>The Teamcenter platform includes core product lifecycle management capabilities that you can leverage regardless of where you are in your PLM journey.</p>	<p>Visualization</p> <ul style="list-style-type: none"> • Consistent Product and Manufacturing Information (PMI) • Supports low-cost virtual reality devices like HTC Vive, Oculus Rift and zSpace devices • Client-side image rendering to pan, zoom and rotate 3D search results <p>Classification</p> <ul style="list-style-type: none"> • Full page classification authoring in Active Workspace 	<ul style="list-style-type: none"> • Improve product usability and cross-tool visibility • Improve decisions by evaluating digital twin using Virtual Reality • Lower cost of ownership by eliminating a server-side graphics processing unit • Improved productivity using a larger classification display area
<p>Integrated material management</p> <p>Integrated material management to manage your material lifecycle in Teamcenter, and integrate material aspects throughout the product lifecycle.</p>	<p>Integrated material management</p> <ul style="list-style-type: none"> • Ability to assign materials to parts under an assembly leveraging new capabilities in NX • With material inheritance, understand changes in material properties after a surface treatment such as heat treatment has been applied. This provides traceability back to the source material. • Leverage compound materials to support coatings that are applied to materials and understand impacts on mass calculations and compliance 	<ul style="list-style-type: none"> • More efficiently assess and respond to materials in the product

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<p>Platform deployability – Teamcenter Rapid Start SaaS for NX or Solid Edge</p> <p>Customers just getting started with PDM can choose the cloud-hosted deployment option.</p>	<p>Teamcenter Rapid Start SaaS for NX or Solid Edge</p> <ul style="list-style-type: none"> • Preconfigured PDM delivered through software-as-a-service (SaaS) • Supports on-premise NX or Solid Edge MCAD system 	<ul style="list-style-type: none"> • More widely available in English for Canada, Australia, Germany, Europe and United Kingdom, along with the United States and Mexico.
<p>Active integrations</p> <p>Enables full bi-directional information exchange, making the right data available anywhere across the enterprise.</p>	<p>Integration of business tools and processes:</p> <ul style="list-style-type: none"> • Teamcenter Gateway for Oracle EBS links buy items to manufacturers and manufacturer parts numbers in Teamcenter • Teamcenter Gateway for SAP S/4HANA supports SAP S/4HANA 1709 • Gateway for Teamcenter Reporting & Analytics leverages the integration of Teamcenter Gateway for SAP S/4HANA • Teamcenter Product Cost Management Gateway for SAP provides synchronization from SAP Business Suite and SAP S/4HANA to Teamcenter Product Cost Management • MCAD designers can access the Teamcenter Gateway data in the Active Workspace window embedded in the native MCAD application 	<ul style="list-style-type: none"> • Re-use ERP manufacturer information for more accurate analysis • Re-use knowledge gained using Teamcenter/SAP integrations to provide a lower total cost of ownership • Re-use product variants from the ERP systems to calculate costs of similar products, or variants • An intuitive user experience for MCAD designers to query and import information from enterprise applications (ERP, MES, SCM, etc.)

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