SIEMENS

Teamcenter technical publishing solutions

Enhancing the development of structured documentation within PLM

Benefits
- Provides technical authoring-focused interface for re-use of engineering data, embedded XML authoring application, illustration management, classification of topics and managed translation of content

- Improves productivity and quality by establishing standards for document authoring/collaboration

- Accelerates time-to-market by enabling authors to rapidly author/publish documents and multiple product-related variants

Summary
The structured content management and technical publishing suite of Teamcenter® software provides dynamic solutions for automating the activities associated with authoring, assembling and publishing complex product and/or service documentation in multiple languages and delivery formats. Teamcenter provides advanced integration and market-leading Standard Generalized Markup Language (SGML)/ Extensible Markup Language (XML) authoring and publishing tools. You can leverage these integrations and the product lifecycle management (PLM) authoring, review and publication capabilities of Teamcenter to unify your product engineering and authoring processes, as well as to create and publish highly flexible and accurate documentation.

Business challenges
Ideally, documentation should be developed in concert with your product development process. Unfortunately, all too often authors create and manage their work in isolated environments, with the result that technical publication groups need to perform significant rework as engineering changes occur late in the development process, or even worse, fail to deliver a document on time for the product release.

These unaligned and serial processes can cause companies to release their products to market without proper documentation, labeling or regulatory filings, and even delay the product launch altogether.

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Benefits *continued*
- Reduces translation costs for global publications by re-using document components and tracking translations

- Reduces documentation costs by re-using content components efficiently and eliminating cut-and-paste practices

- Provides pre-configuration of industry standards such as PI-Mod and DITA for faster implementation

Teamcenter functionality
In today's fast-paced global economy, documentation is critical to product launch and delivery. With this in mind, Teamcenter enables you to incorporate content management into your product lifecycle management so you can:

- Establish standards for documentation input and collaboration

- Leverage advanced content authoring and management

- Automate and optimize publication and distribution

For advanced documentation needs, you can extend your Teamcenter environment with technical publishing capabilities that utilize SGML/XML applications to improve the processes associated with authoring, assembling and publishing product and service-related documents in multiple languages and output formats.

Facilitating seamless product and publication definition
Teamcenter addresses issues traditionally associated with document creation and technical publications, including risks introduced when processes:

- Fail to enforce consistent authoring

- Require a long-term process for researching information

- Involve manual formatting and publication tasks that impose time delays

- Require difficult engineering changes that affect applicable publications

- Rely on cut-and-paste operations to multiple documents instead of effective re-use of content

- Require content rework for different delivery channels

- Can't be tracked, leaving users unable to understand the impact of product changes on documentation

Implementing XML/CMS in PLM

Publish

Translate

Review

Author

Research

Traditional   CMS and XML   With CMS in PLM
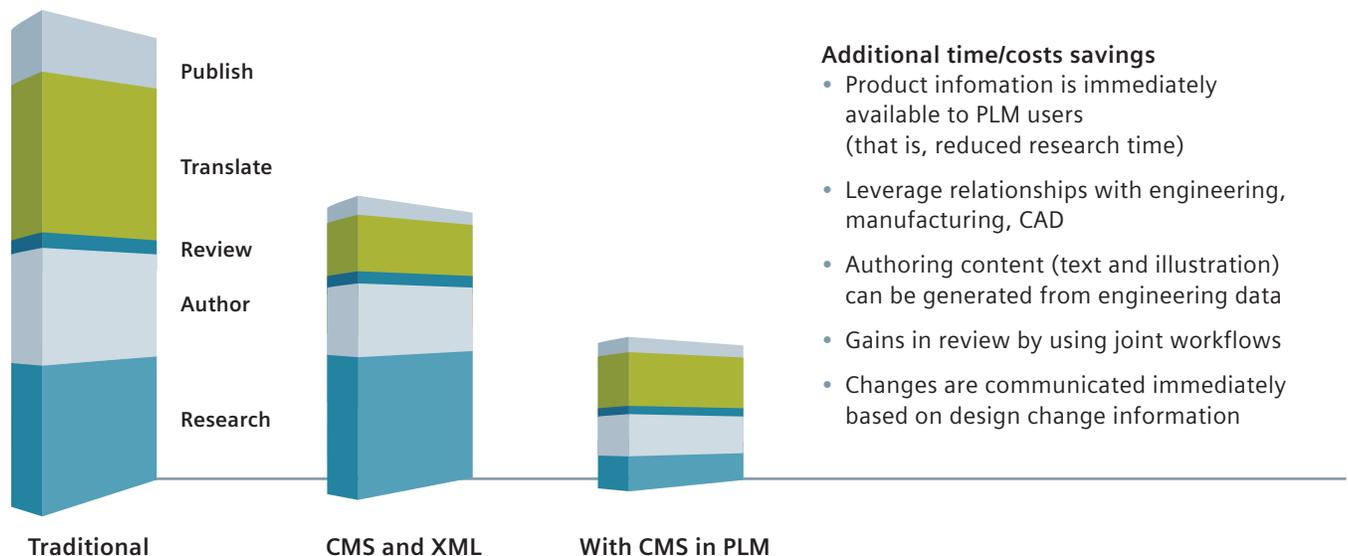
Additional time/costs savings
- Product infomation is immediately available to PLM users (that is, reduced research time)

- Leverage relationships with engineering, manufacturing, CAD

- Authoring content (text and illustration) can be generated from engineering data

- Gains in review by using joint workflows

- Changes are communicated immediately based on design change information

Including technical publication users in an integrated content management system (CMS)/PLM environment provides additional savings and benefits over and above those realized when moving from traditional desktop publishing to a CMS environment.

Features

- Manage content using XML components in a document structure with relationships in the context of product configuration

- Search using saved, ad hoc queries and full text using classification and metadata, or search by relationship to product structure

- Manage translated content in relationship to source or master components, with automated alignment of updated translations

- Built-in media asset management with cross-media management of multiple formats and languages to optimize target output, including web and PDF

- Embedded authoring, with drag-and-drop of topics to build document structure

- Built-in graphic and content preview viewer and publishing
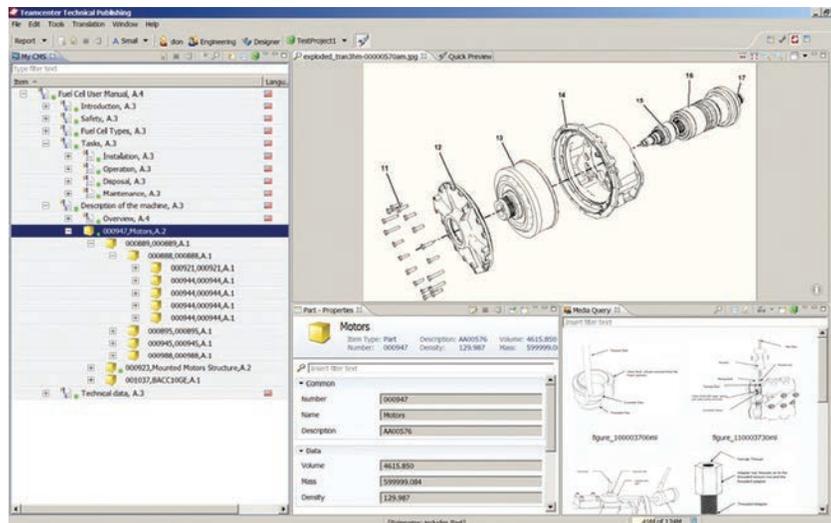
Teamcenter technical publishing enables you to take advantage of product information.

In today's knowledge-based economy, companies are driven to meet customer demands for product and service information that is highly accurate, relevant and consistently up-to-date. Using Teamcenter eliminates the repetitive, error-prone processes normally associated with developing standard documents and technical publications. Teamcenter enables content authors and product teams to be in sync when creating, managing and publishing vast amounts of technical systems information.

Teamcenter can be used to automatically perform full-text indexing and document formatting to facilitate reviews. Furthermore, Teamcenter supports dynamic publishing by applying style sheets to content based on configuration, revision or effectivity considerations.

When using the content management capabilities of Teamcenter, a document's content is separated from the format defined by the style sheet; users can easily format or render the same document for print, web or interactive electronic technical publications (IETPs). Teamcenter also makes it easier to publish documentation in multiple languages for each required output format. You can use Teamcenter technical publishing solutions to create:

- User and owner manuals

- Parts and product catalogs and data sheets

- Training documentation

- Maintenance, repair and operations (MRO) logistics support documents

- Service and repair manuals

- Specifications

- Resource descriptions

- Costing and estimating documents

Underlying concepts

Teamcenter enables you to manage your product development and document/publication support processes in a single environment with common product knowledge available to your entire team. Technical writers and illustrators view and interact with 3D visualization of the product and parts they're describing, and create connections between source content and related documents within the context of your workflow and business processes.

For example, the document's illustrations or part tables can be related to engineering's parts and assemblies. Teamcenter's advanced technical publishing solutions enable you to re-use parts and products directly in the document structure. Teamcenter allows the classification and metadata available on the objects as conditions for publishing configuration and release or date-effective documentation in multiple formats.

Use cases

Structured content management
By letting you include technical writers in the PLM environment, Teamcenter enables these stakeholders to contribute directly to product launch processes and draw upon product engineering source data to create content as needed. Documentation teams can decompose documents into components that are the right size to justify their continued management and still support re-use in multiple instances. These components can be managed from a single source of information and leveraged to publish or update multiple documents.

You can access the Teamcenter repository to make a change to a single component that subsequently can be applied to multiple documents containing the original information. This practice is especially valuable for ensuring information integrity and accuracy. Managing a single source also reduces translation cost by enabling you to limit translation requests only to those components that have changed, and then re-using these translated components in multiple documents.

Automating key documentation processes
Teamcenter workflow capabilities enable document teams to speed their review/approval processes, optimize change processes and trigger audience-specific publication processes. Workflows driven by
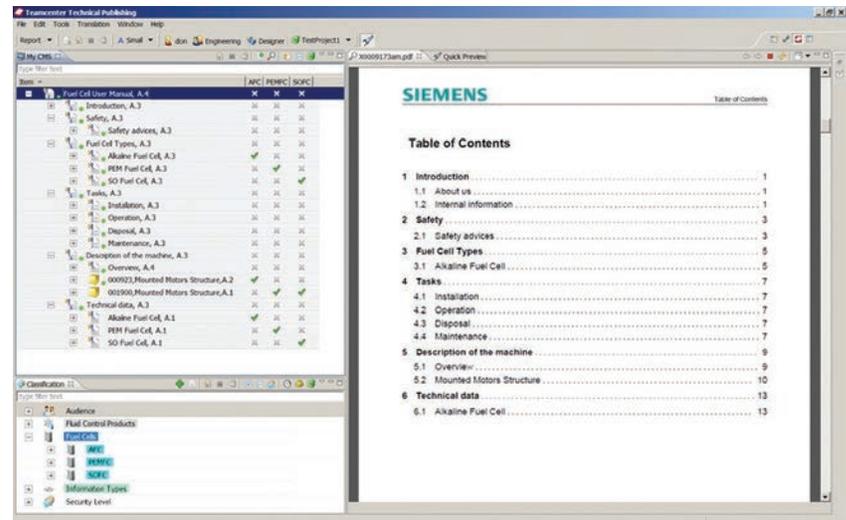
Authoring, classification and publishing in a single user interface.

Teamcenter enable companies to publish and deliver the right information to the right audience at the right stage in the product lifecycle.

Document teams can leverage Teamcenter change management capabilities to ensure that product changes are executed through standardized best practices and include the necessary document changes. In addition, workflows driven by Teamcenter can automatically initiate processes that deliver audience-specific publications in the appropriate format.

Integrated total product development
The Teamcenter single source of product knowledge brings product engineering and documentation teams together in an environment in which change can be captured and communicated to all of the product launch stakeholders. Engineering changes can be identified immediately and applicable content, such as parts, tables or graphics, can be automatically incorporated into documents and publications.