

S1000D for aerospace and defense

Enabling enterprises to seamlessly collaborate on development and publication of product documentation

Benefits

- Empowers collaborative documentation development globally
- Reduces S1000D overhead by making product development and CMS part of the PLM environment
- Improves accuracy and quality of documentation with direct links to and content generated from product information and processes
- Provides management of S1000D data modules to increase productivity and quality of data exchanges
- Reduces delivery costs and effort for S1000D deliverables

Summary

The aerospace and defense industry produces some of the most advanced and complex products in the world. Documentation can easily match product complexity but must be delivered in time for the product release. The fact that many of these products are designed and manufactured as a collaborative effort between multiple companies creates the need to collectively work on the supporting documentation. The S1000D standard was established to help reduce the effort to share, develop and deliver that documentation. Teamcenter® software and its S1000D solution provide a product lifecycle management-driven common source database (CSDB) for standardizing the authoring, exchange and publication of content.

Business challenges

Today's advanced aerospace and defense products are the result of program teams comprised of many companies working collaboratively to design and manufacture complex military systems. Just as each company

may utilize different tools to accomplish the design of their part of the product, they may also use different authoring tools and systems to create their portion of the documentation. This disparity can cause problems when companies exchange documentation elements in preparation for publication. The S1000D specification was created to enable the consolidation of documentation from dissimilar authoring and delivery systems to reduce the effort to exchange product data.

The use of S1000D enables the dispersed authoring of documentation components in an identifiable, organized manner that promotes the intelligent exchange of that information.

Teamcenter and S1000D

Teamcenter provides one of the world's leading product lifecycle management (PLM) solution suites. Teamcenter specifically incorporates content management and technical publications authoring and publishing into the PLM environment to enable synchronized development of documentation and product. This single environment approach permits content authors to directly access product source data, use it to create content directly and then keep that content in sync with changes to the product. Data modules and illustration control numbers (ICNs), whether 2D/3D illustrations or animations, can be authored and managed as re-usable components that can be assembled and published in final documentation for parts catalogs, manuals or training material.

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Features

- Supports data module management with DML and DMRL lists
- Data module and publication management in CSDB, including text and illustrations
- Provides sample workflows for content development
- BREX validation
- Includes sample data module and document style sheets
- SNS structures for managing S1000D content and relationships
- Manages multiple S1000D versions in a CSDB

Data modules are managed using Teamcenter Content Management S1000D as the CSDB. Data module lists (DML) can be produced at incremental or formal release stages to track and manage deliveries between the program participants. Data module requirement lists (DMRL) are also supported to manage deliverables per a program or contract to ensure that deliverables are produced and in fact delivered.



Sample workflows are provided to assist with the creation of this content through automation of reviews, approvals and exchange processing. Teamcenter supports business rules exchange (BREX) validation of data modules to ensure correctness and completeness of data modules for exchange. Style sheets are provided for both data modules and documents to support review and publication.

Standard numbering system (SNS) structures are part of the solution so that S1000D content can be organized and aligned with your product bills-of-materials (BOMs).

Use cases

You can identify and create content, text or illustrations in a manner compliant with the S1000D specifications to enable the intelligent exchange of documentation elements with program partners and customers. Creating and managing DML and DMRL enable you to manage and exchange content. This environment and additional tools support the publication of manuals, parts catalogs, and Sharable Content Object Reference Model (SCORM) training material.

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