

MRO logistics records management

Integrated logistics records management for the product lifecycle

fact sheet

Siemens PLM Software

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► Summary

Teamcenter® software's maintenance, repair and overhaul (MRO) suite provides a logistics records management (LRM) solution that integrates capabilities from the world of product engineering, logistics, manufacturing and support into a single knowledge and process management environment that facilitates best-in-class collaboration across the product lifecycle. You can leverage this single source of knowledge to perform integrated change and configuration management and to improve the accuracy of your logistics support data, as well as to increase the productivity of organizations tasked with creating and managing this data.

Benefits

- Improves productivity and logistics support data integrity by providing a single source of product and process knowledge for all lifecycle disciplines*
- Improves logistics support data creation by enabling logistics support data to directly link with part and product data*
- Improves change management by enabling change processes to include all affected organizations*
- Facilitates better impact planning by providing full product views across product engineering, logistics, manufacturing and sustainment*
- Improves customer responsiveness by linking the latest live "hot" logistics support data to the latest engineering modifications*

Features

- Physical product configuration definitions with substitute and alternate parts*
- Logistic structure with logistic control numbers (LCN)*
- Logistics document management*
- Part and equipment life characteristic definitions and limits*
- International Traffic in Arms Regulation (ITAR) support for export control compliance*

Teamcenter's logistics records management (LRM) solution improves the accuracy and productivity of your logistics operations by providing a single source of knowledge that integrates your logistics support data with the design, engineering, manufacturing and sustainment information generated across your product lifecycle.

Traditionally, logistics support information, represented by logistics support records, was created and maintained by highly trained logistics personnel in systems separate from product engineering and sustainment systems. Labor intensive handoffs and costly change management practices frequently were required to align these systems across a product's entire lifecycle.

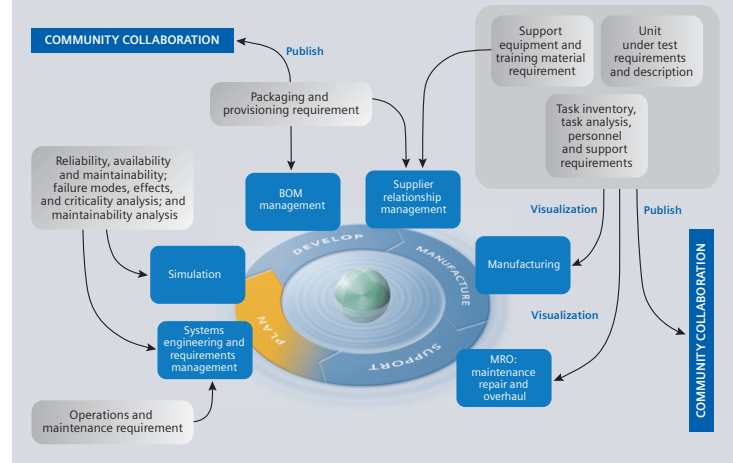
The role of logistics support data

As the accompanying diagram illustrates, Teamcenter integrates logistics support data generated throughout the delivery process of the product lifecycle. Logistics support data provides your organization with the basis for servicing a product during its operational life – ensuring that the right inventory of parts, equipment and procedures are in place for its continued support.

Logistics support data plays a key role in enabling you to deliver and support complex products. Teamcenter's logistics record management solution enables all parties that contribute to this critical data to more easily collaborate in change processes by aligning their activities around a single source of integrated logistics, design, engineering, manufacturing and sustainment knowledge.

Teamcenter's LRM solution leverages key logistics standards, including:

- PLCS ISO 10303-239 for integrating logistics support data into a product lifecycle backbone



Features continued

Integrated change management with impact analysis of product engineering data and logistics support records

Logistics support records history

Creation and management of logistic support records for:

End and indented items

Entities

Operations and maintenance requirements

War/peace operations and maintenance requirements

Maintenance and operational level requirements

Reliability and interoperability requirements

Reliability, availability and maintainability characteristics

Failure mode and RCM narratives

Failure mode IMPC characteristics

Task requirements and subtask descriptions

Task support equipment and provisioned items

Skills and subtask personnel requirements

Support equipment narratives and alternate equipment

Input power source

Support equipment design data and integrated logistic support requirements

Item identification

Part application provisioning

Overhaul kit data

Provisioning reference designation

Parts manual descriptions

Article or unit test information, equipment, instructions and programs

Unit under test fault isolated replace unit descriptions

- Mil Std 1388 2A and 2B for defining and managing logistics support data
- The developing GEIA-STD-0007 Logistics Product Data standard

The Teamcenter solution enables enterprises to capture and manage:

- Configuration information that describes products and assets for the entire product lifecycle
- Complete histories of products, traceable components, assemblies, systems and logistics support data
- Servicing task requirements and definitions
- Requirements for service equipment
- Provisioning, initial support packages, spares and procurement requirements
- Technical information defining life characteristics and applicability
- Logistics structure defining part, subsystem and system locations

Leveraging integrated logistics support data

Working from a common source of integrated knowledge, product engineering, manufacturing logistics and service/support teams can leverage Teamcenter configuration management capabilities to directly associate product design, engineering and manufacturing configurations and data with logistics support records and product structure definitions.

Working directly with engineering information, logistical specialists can define maintenance requirements, procedures and tasks, life expectancy projections, equipment needs, inventory levels and initial spares requirements for the product.

By linking these configurations and data through Teamcenter, product changes that initiate from engineering, logistics, manufacturing or services can be quickly analyzed for impacts everywhere – and communicated for incorporation. Logistics support records can be updated immediately and accurately within the same change and configuration management processes applied to the product elsewhere.

Since logistics teams have visibility to product engineering data, they are able to utilize this information without having to reenter it manually or initiate an import verification process. A common source of integrated knowledge ensures that logistics planning is able to leverage up-to-date information and all pertinent data required for creating the logistics support records needed to deliver product and process data to the customer.

Teamcenter is the only solution able to unify PLM and logistics in the same enterprise environment, which is especially important for companies that want to maximize their innovation investments.

Use cases

Improving logistics support data quality. Teamcenter's logistics records management solution enables logistics teams to directly access product engineering data to determine product structures, analysis results, and other information pertinent to the development of accurate logistics support records. LRM allows the logistics team to participate in change and configuration management processes and stay current on product definitions.

Improving productivity. Logistics teams can use Teamcenter's LRM solution to eliminate the need to recreate product data and remove the need for time-consuming manual reentry procedures that introduce the possibility of data errors.

Global support. Teamcenter provides logistics teams with secure web access to the latest, most accurate product and logistics support information while enabling dispersed teams to update logistics support data with empirical data derived from operational situations.

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