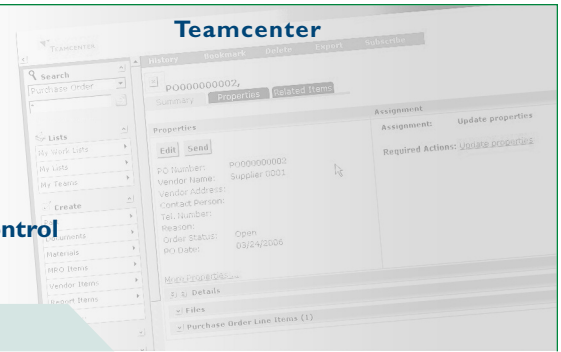


# MRO material management

Providing configuration-driven resource visibility and global resource control



## fact sheet

Siemens PLM Software

[www.siemens.com/teamcenter](http://www.siemens.com/teamcenter)

### ► Summary

Teamcenter® software's material management solution provides service organizations with total "purchase to scrap" compliance traceability and control over the parts, tools and equipment needed to support their maintenance, repair and overhaul (MRO) operations. Teamcenter's strong configuration management capabilities tie parts and their related usage data to configurations of actual assets operating in the field. Teamcenter's single integrated source of web-based data facilitates comprehensive part management, including the ability to manage part requests, issues, orders, receipts, exchanges and returns. Teams leverage this data to support performance-based logistics (PBL) contracts.

### Benefits

*Improves decision making by providing service teams with total visibility to their organization's part, tool and equipment inventories*

*Facilitates better inventory utilization by enabling service teams to assess accurate part and order status against job requirements (tied to the asset's current configuration)*

*Increases productivity by using automated workflow-driven procedures to minimize the time required to perform non-value tasks, such as advancing orders, information and approvals*

*Improves organizational control by providing inventory-related audit trails; leverages a chart of accounts definition for individual parts that easily integrates those parts into existing financial management systems and provides coordinated views into vendor-related accounts receivable and payable*

*Improves value chain synergy by providing visibility into part and service orders that require quotes and inventory*

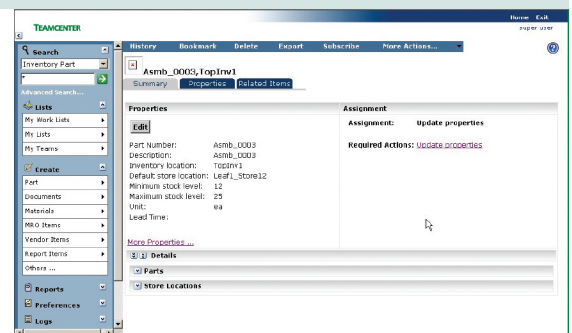
*Improves data integrity by providing a single web-based source for managing and accessing all part, tool and equipment service-related information*

Teamcenter's material management solution enables service organizations to manage a wide range of part, tool and equipment information and thereby optimize their MRO-related inventory and resources. The material management solution allows organizations to:

- *Manage vendors* – by tracking quality ratings, delivery performance, second sourcing, quotes for services and quotes for the sourcing of parts, tools and equipment
- *Catalog parts* – by tying managed parts to their field-related asset configurations and their as-designed, as-built and as-maintained product structures
- *Facilitate inventory visibility* – by managing parts in terms of their minimum/maximum inventory levels, receipt, location, condition (including quarantined status), issue/reserve to jobs, orders, backorders, depletion marking, exchanges, sources and costs
- *Control tool inventory* – by providing visibility to the condition, location and job assignment of inventoried tools
- *Manage repair processes* – by monitoring parts, tools and equipment to ensure that vendor quotes are received and processed; also drives individual repair orders and tracks shipping/receiving actions to closure
- *Measure performance* – by monitoring the service organization in terms of inventory transactions, resource usage and order-fulfillment metrics

Service and support organizations can leverage this level of inventory and part process visibility to maximize the value of their investments, expedite MRO cycle times and improve inventory utilization (e.g. reducing costly shortages or unused inventory). Teamcenter can provide users with decision-making data about part inventory and statuses, including markings (to indicate obsolete, exhaust, repair, scrap, surplus and industry-standard codes), pricing, lead time and approved vendors.

Service organizations can extend these controls to optimally manage multiple inventory locations. In addition, barcodes and RFID can be leveraged to reduce supply chain errors.



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## Features

*Part, tool and equipment management*  
 Maximum/minimum levels  
 Source and price  
 Marking  
 Cataloging  
 Status  
 Lead time  
*Vendor management*  
 Vendor ratings  
 Quote management  
*Inventory management*  
 Issue and turn in  
 Loans and borrows  
 Part reservation  
 Receipt  
 Requests  
 Returns and exchanges  
 Backorders  
 Purchase orders  
 Repair orders (to internal shops or external vendors)  
 Restock, scrap, surplus and quarantine status  
 Asset movement tracking (for asset compliance history)  
 Tool inventory control  
*Chart of accounts definition*  
 Multi-segment charge number creation for internal/external cost tracking and billing  
 Interfaces for corporate financial packages including ERP systems, such as SAP Finance and Oracle Financials

The material management solution leverages Teamcenter's core document management capabilities to manage part and vendor documents. It also uses Teamcenter's workflow and ITAR security capabilities to implement best-practice compliance procedures.

## Use cases

Teamcenter enables organizations to optimize their inventory investment in parts, tools and equipment by ensuring that the right materials are available for any service job at the right time from the right vendor.

Teamcenter provides service teams with immediate access to accurate and up-to-date information about any inventoried part, tool or equipment, including its current status and activity. This enables the service organization to:

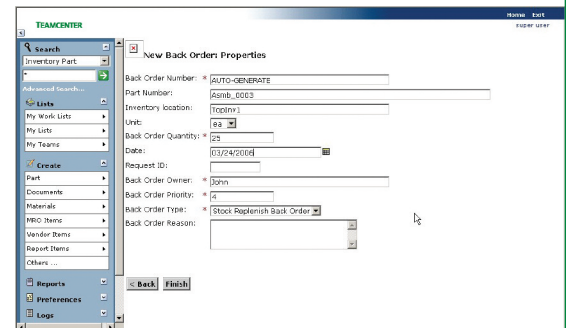
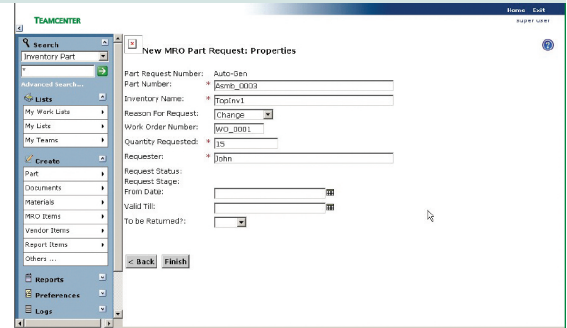
- Improve the decision making associated with inventory investment and vendor sourcing
- Maximize inventory utilization
- Optimize and accelerate event-related service processes
- Improve the accuracy of part/order tracking

*Facilitating operations-wide inventory management and planning.* Teamcenter enables organizations to manage multiple inventory locations so that parts/tools can be shipped, received and tracked from anywhere to anywhere in a global environment. These capabilities can extended to apply to temporary and permanent fields locations, as well as to reduce access cages.

*Facilitating vendor management.* Teamcenter enables organizations to manage their part and service vendors by tracking performance ratings, pricing by part and order, and RFPs and received quotes.

*Managing all orders.* Organizations can use Teamcenter to control and track all inventory-related orders, including purchase orders, back orders, repair orders, rental orders, exchange orders, transfer orders and return orders. Once this information is integrated within Teamcenter, organizations can ensure that orders are not issued for the "wrong" parts.

*Controlling all part and tool activities.* Teamcenter enables organizations to comprehensively manage and track all inventoried parts and tools in terms of their related requests (general and specific), reserves, issues, catalogs, markings (obsolete, exhaust) and controls (scrap, quarantine, restock, return).



## Contact

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