HCLTech | Supercharging Progress™

Cameo Connector for Teamcenter

Enabling integrated engineering and multi-disciplinary product development

Overview

Modern product development demands seamless collaboration across various teams, integrating requirements management, system architecture, design, testing and more. HCLTech Cameo Connector for Teamcenter facilitates smooth, bi-directional data flow between **Cameo Systems Modeler™** (or **CATIA Magic**) and **Teamcenter ® PLM.**

Our connector ensures synchronized workflows across diverse teams, providing real-time data updates and robust traceability. Designed for flexibility, our solution supports industries such as aerospace, automotive and software, adapting to diverse development methodologies to drive efficiency and collaboration.

Our Solution

HCLTech Cameo Connector for Teamcenter is an advanced integration solution that seamlessly bridges the gap between MBSE and PLM tools.

The solution is engineered to tackle the complexities of modern product development by:

Enabling seamless data synchronization

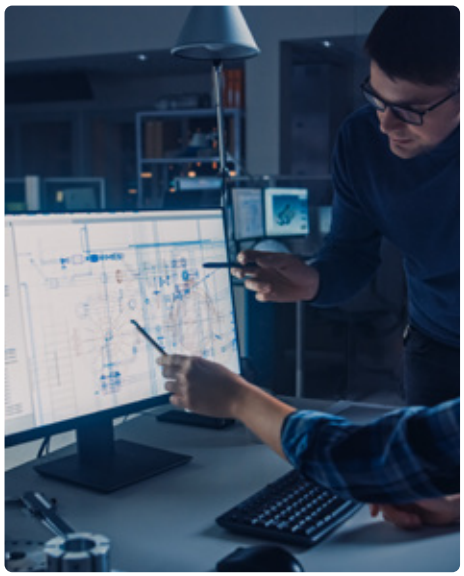
across teams by ensuring that your system models, requirements and design data stay up-to-date and aligned across all tools

Optimizing cross-functional collaboration

by integrating different development domains, allowing teams to work together more efficiently and with greater insight

Improving traceability and accountability

by enabling traceability between initial requirements, system architecture and detail design and testing, ensuring full visibility at every stage of the development lifecycle



Features

Model management
Manage models in Teamcenter for file-based (.mdzip) and Teamwork Cloud models

Export diagrams and data
Easily transfer diagrams and elements from Cameo to Teamcenter

Drag-and-drop integration
Seamlessly drag Teamcenter objects into Cameo models

Bi-directional sync
Automatically sync attributes between tools, ensuring consistency

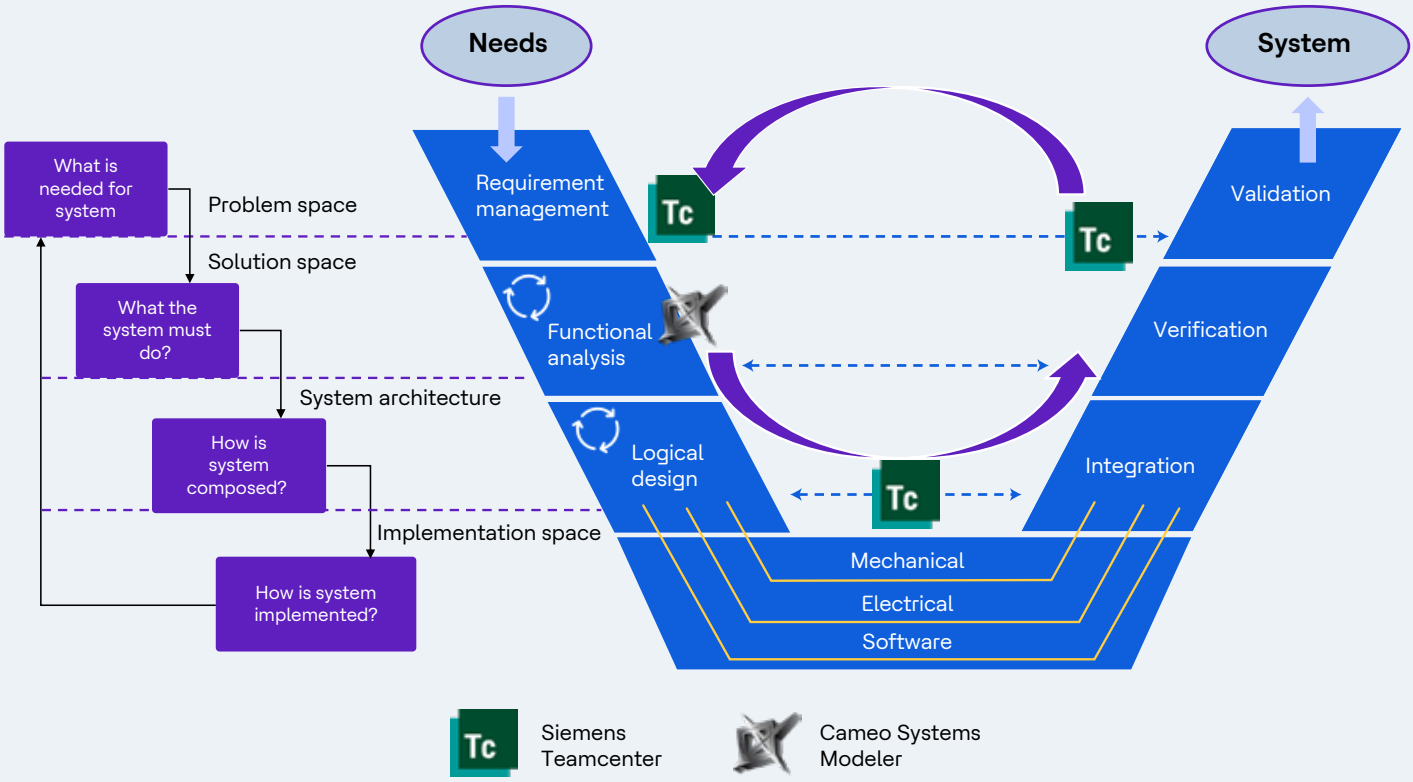
Custom mappings
Tailor integration settings with extensible mapping options

Element-level traceability
Navigate across elements to ensure thorough traceability and downstream analysis

Project traceability
Maintain continuity and traceability across multiple projects and versions

Solution Workflow

The **Cameo Connector for Teamcenter** streamlines the product development lifecycle by enabling seamless data synchronization and collaboration across **MBSE and PLM** tools. Below is a breakdown of how the tools interact within the solution framework:



Key Benefits

With Cameo Connector for Teamcenter, organizations achieve significant improvements in efficiency and product quality:

Effective data management

Seamlessly import PLM data into system models, ensuring consistency and synchronization across tools

Comprehensive traceability

Track requirements to system models, maintaining clear audit trails

Faster time-to-market

Speed up development with early collaboration and faster decision-making

Enhanced reusability

Simplify Reuse of models and artifacts, improving design efficiency and reducing redundant work in future projects

Success Stories

Unlocking the power of MBSE–PLM integration for aerospace industry

Objective

Enable governed, end-to-end traceability from requirements to verification by integrating Dassault Systèmes Cameo Systems Modeler with Siemens Teamcenter, while improving compliance, agility and scalability.

Solution

Implemented HCLTech's Cameo Connector for Teamcenter to establish a unified, PLM-governed digital thread with bi-directional synchronization, element-level traceability, high-performance data exchange and seamless integration of MBSE models with CAD and downstream engineering data.

Impact delivered

- End-to-end regulatory traceability achieved
- Faster engineering cycles and improved collaboration
- High-performance MBSE–PLM data synchronization at scale
- Enterprise-wide, PLM-governed digital thread established

Click here to read more: Enabling Aerospace Traceability with Cameo Connector | HCLTech

Advancing aerospace engineering through MBSE–PLM digital convergence

Objective

Integrate MBSE and PLM into a governed, scalable digital thread to ensure end-to-end traceability, improve collaboration and meet stringent aerospace compliance requirements.

Solution

Deployed HCLTech's Cameo Connector for Teamcenter to enable bi-directional synchronization, element-level traceability and lifecycle governance of Cameo MBSE models within Teamcenter as a single source of truth.

Impact delivered

- End-to-end, regulatory-mandated traceability achieved
- High-performance data exchange for large, complex MBSE models
- Centrally governed MBSE model lifecycle within Teamcenter
- Improved cross-functional collaboration and engineering productivity

Click here to read more: Advancing aerospace engineering with MBSE–PLM Integration | HCLTech

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