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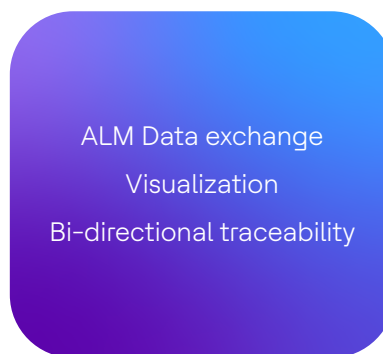
SysML Connector for Polarion

Enabling seamless information flow between Architecture and Application development

There is a growing trend to use formal MBSE models to develop and define complex, multi-disciplinary architectures. However, it is important to maintain consistency between requirements managed in ALM and those used & elicited during Architecture development. MBSE (Model Based Systems Engineering) and ALM integration is essential for Digital transformation and consistent information flows across the engineering discipline.

In contrast to the conventional document-based approach, MBSE helps in creating model-based executable specifications of multi-disciplinary systems, HCLTech has developed two different connectors **"Cameo Connector for Polarion"** and **"Rhapsody Connector for Polarion"** to enable seamless collaboration between architecture models in systems modelling tool and data managed in Polarion. It delivers capability to integrate product development for organizations using Polarion for Requirement Management and System modelling tool for MBSE.

SysML Connector for Polarion

System Modelling tool, provides intuitive tools to define, track, and visualize all aspects of systems in the most standard-compliant SysML models and diagrams

ALM Data exchange
Visualization
Bi-directional traceability

Connect teams and projects, and improve application development processes with a single, unified solution for requirements, coding, testing, and release

CAMEO ENTERPRISE ARCHITECTURE
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POLARION
SIEMENS

Key use cases

ALM Data Exchange

Import Polarion work items creating corresponding System Modelling elements based on semantic mapping

Export information about traceability to system design using surrogates

Bi-directional Traceability

Maintain traceability to information authored in respective tool enabling debugging and impact analysis of changes
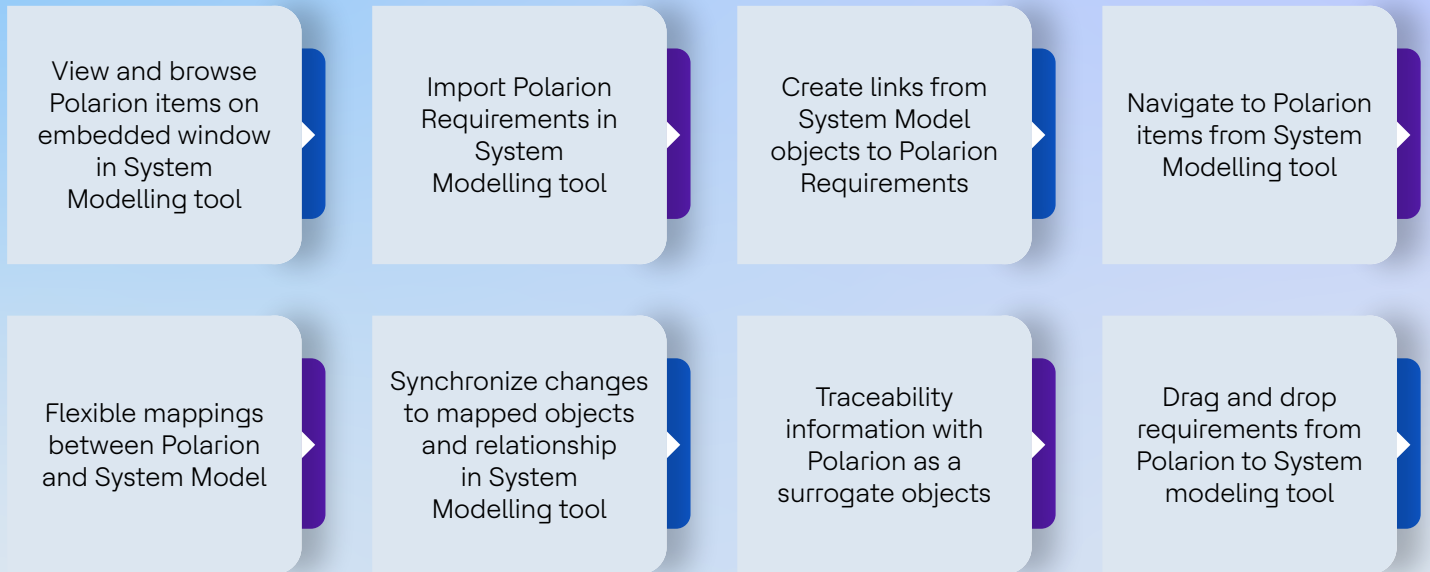
Bi-directional updates and synchronization of attributes and links

Visualization of ALM Data

Visualization of Requirements/Work Items in embedded Polarion window in System Modelling tool,

Navigate to corresponding item from System Modelling tool to Polarion and vice-versa

Key functionalities

View and browse Polarion items on embedded window in System Modelling tool	Import Polarion Requirements in System Modelling tool	Create links from System Model objects to Polarion Requirements	Navigate to Polarion items from System Modelling tool
Flexible mappings between Polarion and System Model	Synchronize changes to mapped objects and relationship in System Modelling tool	Traceability information with Polarion as a surrogate objects	Drag and drop requirements from Polarion to System modeling tool

Solution benefits

Effective ALM Data Management

This connector allows System designer to import ALM data and consume with model elements of business, software, or systems architecture. At the same time make appropriate links with Polarion objects to synchronize and get all the changes happens in Polarion. Ensure consistency of data between MBSE and ALM.

Enable Collaborative Design Process

Enable collaboration with enterprise team through simplified data exchange. System designers can access, edit, publish and synchronize requirements with ALM system without leaving System Modelling tool.

Accelerated Product Development

Saves time and resources by working with integrated platform for requirements, processes, and design. It minimizes the unnecessary rework and expense.

Traceability

Traceability across requirements/tests/defects to System model by closing the loop between downstream implementation and upstream plans.

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