

Extending Live Traceability™ to Product Lifecycle Management (PLM) with Jama Connect®

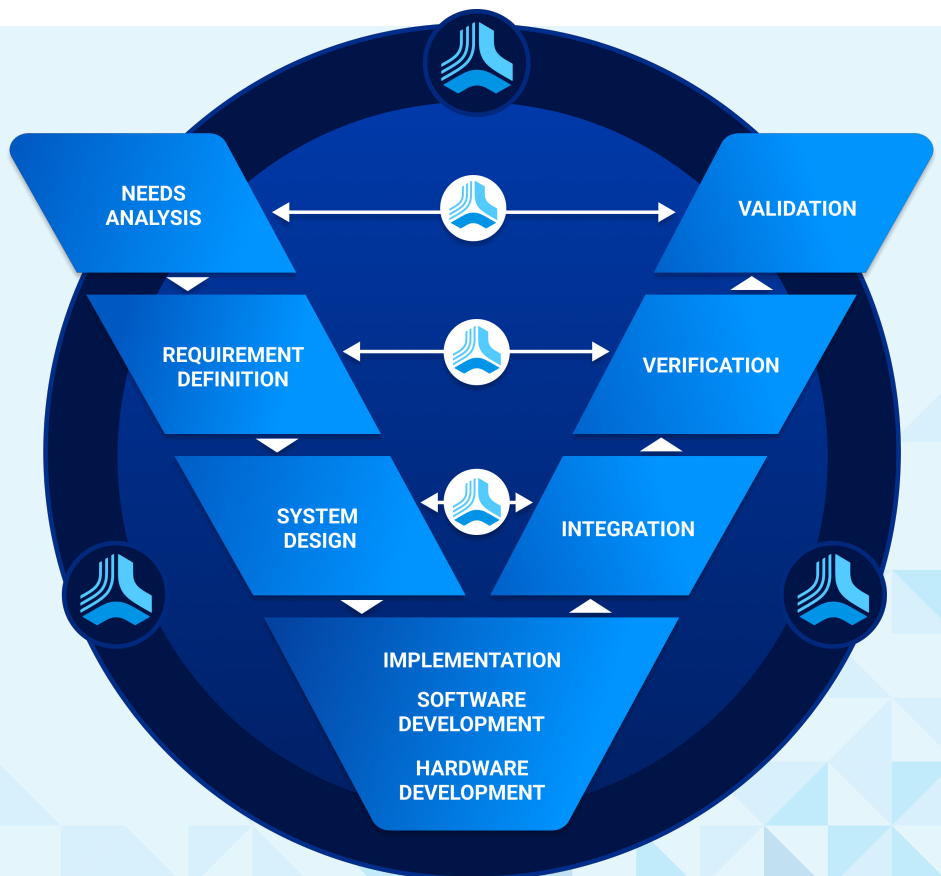
Jama Connect® is the ONLY solution that enables Live Traceability™ from requirements management to Product Lifecycle Management (PLM). Jama Connect has integrations with leading PLM solutions including Siemens Teamcenter, PTC Windchill, Dassault Systemès Enovia, and ARAS Innovator to provide a measurable digital thread that is proven to improve engineering outcomes.

Powerful Benefits of Using Jama Connect for PLM

Jama Connect empowers teams with increased visibility and control by enabling product development to be synchronized between people, tools, and processes across the end-to-end development lifecycle. With Jama Connect, teams can seamlessly link requirements to hardware specifications and product line engineering for complete traceability and impact analysis.

With the power of Live Traceability in Jama Connect:

- Traceability can be managed and measured at both the item and the project level
- Projects can be managed by traceability exceptions
- Change impact can be broadly analyzed
- Data can be easily incorporated into reports
- Teams can have a single system of record for product definition
- Collaboration can be tracked and reported on



Five Ways Jama Connect Can Be Used with a PLM Tool

Jama Connect is integrated with PLM tools to streamline the product development process and improve collaboration across teams. Here are the most common integrated workstreams between Jama Connect and PLM tools:



Requirements Management: Jama Connect is used to capture, manage, and trace requirements for a product. These requirements are linked to the relevant parts, components, and assemblies in the PLM tool. *This ensures that all stakeholders have a clear understanding of the product requirements and that they are consistently implemented throughout the product lifecycle.*



Change Management: Changes to the product are managed in Jama Connect and tracked in the PLM tool. This helps ensure that all changes are documented, reviewed, and approved before being implemented. *The integration between Jama Connect and the PLM tool ensures that changes are implemented consistently across the product development process.*



Risk Management: Jama Connect is used to identify and manage risks associated with the product. These risks can be linked to the relevant parts, components, and assemblies in the PLM tool. *This ensures that all stakeholders are aware of potential risks and that appropriate actions are taken to mitigate them.*



Test Management: Jama Connect is used to manage test plans, test cases, and test results. These are linked to the relevant parts, components, and assemblies in the PLM tool. *This ensures that all testing is conducted in accordance with the product requirements and that test results are consistent throughout the product development process.*



Architecture Allocation Management: Jama Connect is used to manage architectures such as: system logical, physical part, software, functional, and security. These elements provide the means to demonstrate allocation of requirements to these structures. This provides a multi-domain architecture approach and allows the PLM users to understand the operational, behavioral, and constraints of the product as well as implications their changes might make architecturally across the domains.

Streamlined Integration to Your PLM

PLM implementations are complex and require extensive effort to roll out. Organizations invest in software tools ecosystems but have forgotten to invest in their data. A consistent data model is the best way to maximize the benefits of software tooling and integration; but can only be achieved by spending time to analyze the data architectures within those tools to determine how best to streamline their integration. Jama Connect provides an extensible data model to integrate with leading PLM tools and the extended tool ecosystem enabling Live Traceability across the entire development ecosystem.

Jama Software's [Traceability Diagnostic](#) is a 7-step process that analyzes existing data across software tools, spreadsheets, and documents to determine the most common object definitions upon which to base a consistent data model going forward.

- 1. Inventory** | All systems including PLM and spreadsheets that contain traceable data
- 2. Traceability Matrix** | All traceability linkages that should exist across the inventory
- 3. Traceability Debt %** | Percentage of linkages not implemented
- 4. Risk Probability** | Likelihood of negative product outcomes given Traceability Debt %
- 5. Risk Cost** | Cost of negative product outcomes (delays, defects, rework, cost overruns)
- 6. Point & Click Integration %** | Number of total linkages Jama Connect supports through point and click
- 7. ROI** | Return on implementing Live Traceability

Once a streamlined data model has been determined, Jama Software's Live Traceability model ensures that data relationships remain consistent. As opposed to a legacy, document-centric method, or ad-hoc OSLC links, Jama Connect's model-based traceability ensures consistent application of all objects *and* defines and maintains the relationship rules among the objects. This allows formation of measurable digital threads between requirements, PLM, software, and verification and validation across all projects and variants.

For organizations developing products that combine both hardware and software components, Jama Connect is central and essential. Jama Connect integrates with software development tools (like Atlassian JIRA and Microsoft Azure Devops) and to PLM tools for hardware development. Requirements created in Jama Connect become available to PLM tools where they can be consumed and referenced by hardware engineers. This enables the entire organization to use one purpose-built tool to manage both the hardware and software requirements — and any changes to requirements' basic and custom data fields will be reflected in the PLM (and / or the software development tool).

Using Jama Connect's Live Traceability and [Traceability Score™](#), organizations can improve product lifecycle engineering quality and accelerate time to market. Jama Software® is the only solution providing [engineering performance](#) benchmarks — the first large scale, empirical research to confirm that higher levels of traceability correlate to cycle time and quality improvement.

Interested in learning more? Connect with us here.