



Codebeamer + MBSE

Connecting Requirements, Models, and Product Development Workflows

As products become increasingly software-driven and multidisciplinary, organizations are turning to Model-Based Systems Engineering (MBSE) to improve collaboration, traceability, and development efficiency.

Traditional document-based systems engineering approaches struggle to keep up with growing product complexity, disconnected workflows, and evolving compliance requirements.

Codebeamer helps organizations connect MBSE initiatives with modern Application Lifecycle Management (ALM) processes by integrating requirements, testing, risk management, and lifecycle workflows with leading MBSE and SysML-based modeling environments.



Bridging Requirements & System Models

MBSE environments rely on connected system models to support design, validation, and collaboration across engineering disciplines. Codebeamer integrates with MBSE and SysML tools to help organizations establish traceability between requirements, system architecture models, testing, and validation activities.

This connected approach helps teams:

- Improve lifecycle visibility**
- Reduce disconnected workflows**
- Strengthen requirements traceability**
- Support digital engineering initiatives**
- Improve collaboration across systems, software, and product engineering teams**

Supporting the Digital Thread

Codebeamer works alongside PTC technologies and engineering ecosystems to support a connected digital thread across the product lifecycle. Integrations with MBSE tools help organizations align system architecture models with requirements, risk management, and validation workflows.

Organizations can better connect:

- SysML models
- Verification & validation
- Product development workflows
- Requirements management
- Risk and compliance activities

Built for Complex Engineering Environments

Codebeamer is well-suited for organizations developing complex or regulated products.

- Automotive
- Medical Devices
- High-Tech Manufacturing
- Aerospace & Defense
- Industrial Equipment

Modern engineering organizations increasingly require connected ALM and MBSE strategies capable of supporting Agile development, compliance readiness, and lifecycle-wide traceability.

Why EAC

EAC helps organizations align MBSE initiatives with scalable ALM strategies using Codebeamer and the broader PTC ecosystem. From requirements management and systems engineering workflows to process optimization and digital transformation, EAC helps manufacturers build connected development environments designed for modern engineering complexity.

See How Codebeamer
Stacks Up With
Competitors

