![ptc logo]

Codebeamer and Windchill:

A Winning Combination

In today's **rapidly evolving** technological landscape,

organizations face immense pressure to deliver innovative products to market faster while maintaining high quality and compliance standards. To achieve this, many teams are turning to the strategic integration of Application Lifecycle Management (ALM) and Product Lifecycle Management (PLM). This dynamic integration offers a comprehensive approach to product development, combining the strengths of software development with visibility over the entire product lifecycle.

What is Codebeamer?

Codebeamer is an Application Lifecycle Management (ALM) platform acquired by PTC in 2022. It extends ALM capabilities with product line configuration capabilities and provides unique configurability for complex processes. It focuses on systems engineering, software development, quality assurance, and compliance.

Key features of Codebeamer include:

- **Requirements Management:** For software engineers wanting traceability, transparency, and efficient collaboration in requirements management. With Codebeamer you can identify, manage, and track requirements, epics, and user stories across the software engineering lifecycle.

- **Agile Development:** Supports agile methodologies with tools such as Kanban boards and burndown chart.

- **Test Management:** Manages test cases, execution and results.

- **Risk Management:** Helps teams anticipate and prepare for potential risks in the software development process.

- **Out-of-the-box Customizable Templates:** Helps teams meet compliance more easily with ready-made templates, that can help you simplify the regulatory process.

- **Traceability:** Link requirements, code, and tests for full traceability.

What is Windchill?

Windchill is PTC's comprehensive Product Lifecycle Management (PLM) solution. It manages the entire lifecycle of a product, from initial concept to retirement. Windchill's open architecture enables easy integration with other enterprise systems, providing a solid foundation for a product-driven digital thread.

Key features of Windchill include:

- **Parts and BOM Management:** Windchill helps create and manage product structure, including parts, assemblies, and sub-assemblies.

- **Product Data Management:** It handles documents such as CAD files, specifications, and manuals.

- **Change Management:** Windchill tracks changes, approvals, and revisions.

- **Collaboration:** It facilitates collaboration among cross-functional teams, both internally and externally.

- **Change & Configuration Management:** Windchill ensures consistency across product variants.

- **Quality Management:** It helps teams anticipate and correct potential product flaws.

What are the main benefits of using Codebeamer and Windchill together?

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Holistic Product Management

PLM tools, such as Windchill, manage parts, models, and documents, while ALM solutions like Codebeamer streamline software development, requirements management, and deployment processes. By integrating these systems, organizations gain enhanced visibility across the engineering digital thread. With the combination of Codebeamer and Windchill users achieve end-to-end visibility across the entire product lifecycle. This visibility extends from initial design through development, testing, deployment, and maintenance.

The main benefits

Seamless Collaboration

Codebeamer seamlessly connects with Windchill using OSLC (Open Services for Lifecycle Collaboration). Therefore, engineers can easily link and trace between Windchill components and Codebeamer items. This integration allows collaboration between different development teams, fostering innovation and faster product placement. Hence manufacturers dealing with complex and safety-critical products, such as those in the automotive, MedTech, and aviation industries can gain significant benefits from this seamless collaboration.

The main benefits

Improved Traceability

The combination of Codebeamer and Windchill offers end-to-end traceability, ensuring that changes made in one system are reflected in the other. Organizations can capture and manage evolving requirements effectively. Whether it's linking PLM parts to ALM items, such as requirements or tests, the integration guarantees the smooth flow of information.

The main benefits

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Improved Efficiency

The automotive, MedTech and aviation industries are ever-evolving. The combination of PLM and ALM enables quick reaction to these changing needs. As products evolve, requirements may shift. Using integrated systems allows teams to adapt swiftly and efficiently. Agile methodologies used by software development teams can be seamlessly connected with hardware-focused PLM processes.

Summary

Leveraging the capabilities of ALM and PLM together can help bridge the gap from software to hardware and create products more quickly and efficiently through the power of the digital thread.

By combining Codebeamer and Windchill, organizations can achieve end-to-end traceability, visibility, and control across the entire product lifecycle. This integration fosters efficient collaboration, streamlines change management processes, and enhances compliance management efforts.

codebeamer™

windchill®

Discover the power of integrating Codebeamer and Windchill for end-to-end traceability, visibility, and control across the entire product lifecycle.

Contact us to learn more about how this winning combination can streamline your product development process and enhance collaboration.

Get in Touch Now!