Application Lifecycle Management

- Demand & Requirements Management
- Software Development
- QA & Test Management
- IT Operations & DevOps
- Change Management
- Agile, SAFe®, Waterfall Support
- Workflows with Business Process Management capabilities
Overview

codeBeamer ALM is a collaborative, single-repository Application Lifecycle Management platform that supports software development teams in managing their processes end-to-end, from requirements to release. The platform supports Waterfall, Agile, and Hybrid process methodologies, and the parallel management of multiple interconnected & overlapping lifecycles. The system is extendable with apps for specific purposes, and comes with support or preconfigured industry templates for various standards used in the medical, automotive, or aviation sectors (IEC 62304, ISO 14971, ISO 26262, DO-178C, IEC 61508, etc).

codeBeamer ALM offers scalable Agility, process control, and traceability along the entire application lifecycle. With the centralized management of processes, users, teams and projects, codeBeamer ALM increases collaboration, efficiency and productivity, and helps reduce costs dramatically. The platform offers functionality around requirements management, software development, QA & testing, and DevOps, while also supporting the management of risks, multiple product variants, and demands. codeBeamer ALM offers a dedicated, preconfigured template to support the implementation of the Scaled Agile Framework (SAFe®).

Requirements Management

codeBeamer’s Requirements Management (RM) functionality enables you to define and elaborate requirements, review them to allow prioritization, and manage them through the development and testing phases all the way to release. It is tightly integrated in the complete ALM system, providing end-to-end traceability on all requirements. codeBeamer offers integration with Microsoft Office (round-trip with Excel and Word) and IBM DOORS (ReqIF), as well as Enterprise Architect (UML modelling) and Atlassian JIRA®, and has advanced collaboration capabilities around requirements. Baselines (with electronic signatures) enable you capture the current state of all your artifacts, and let you browse previous versions any time. The Reviewer user access allows all your internal or external stakeholders to review, comment and rate requirements. The RM feature set can be used either as a standalone system, or as part of a complete ALM solution.

Software Development & Project Management

codeBeamer’s software development feature set offers configuration, change and defect management capabilities. It comes with Git, Mercurial and Subversion support, and is fully integrated with the ALM system, letting you efficiently manage the entire development lifecycle. codeBeamer ALM offers advanced workflows with BPM capabilities, process enforcement, security and collaboration, as well as project management functionality (team commitment filter, burndown charts, assigned tasks and role-based permissions). The Software Development feature set can be used either as a standalone system, or as part of a complete ALM solution.
codeBeamer ALM supports Demand and Requirements Management, Software Development, Test Management and IT Operations

QA & Test Management

codeBeamer’s QA & Test Management functionality helps you define test cases, plan and organize them into test sets, and execute tests on multiple hardware and software configurations. For requirements-based testing, test cases can be generated from requirements. codeBeamer also supports variants management and re-use: parametrized test cases can be saved to libraries, and (re-)used for different product variants to save time and effort costs. Test management is integrated with bug management, and in case of a failure at test execution, bugs may be reported automatically. QA & Testing in codeBeamer provides end-to-end traceability by associating tests with requirements, code and releases. The Test Coverage Browser can be used to visualize & analyze the test coverage of requirements with different configurations and releases. The QA & Test Management feature set can be used either as a standalone system, or as part of a complete ALM solution.

Demand Management

Demand Management helps you “do the right things” by letting you capture ideas and market demands, review (vote & rate) them to help prioritization, and manage the approval process for each identified demand. codeBeamer’s DM features support an effective demand to requirements process, letting you trace and manage demands all the way through development, release and maintenance. Agile planning methods (Kanban boards may be purchased as an extra) and flexibly configurable workflows help ensure the efficient planning and execution of demands.

IT Operations & DevOps

codeBeamer helps align Development and IT Operations processes by implementing DevOps. It offers escalation and SLA management, change management via a user-friendly Service Desk, and deep integration with various version control system repositories. Integrations with various software tools (Jenkins, JUnit, JMeter, Selenium, etc) support the implementation of DevOps practices such as continuous testing & integration.
Feature Highlights

Single Repository

codeBeamer is a fully integrated system that uses a single repository to store all your data. Therefore, it provides complete end-to-end traceability by establishing links between all your work items from user stories and requirements all the way through to test cases and releases. This also supports change and version control: the system stores the complete change history of all work items, and baselines (with e-signatures) allow you to take snapshots of the current state of all your artifacts.

End-to-end Traceability

Links between all work items may be established, thus providing bidirectional traceability throughout the lifecycle. Our Traceability Browser lets you track relations between risk, requirements, tests & bugs, and also shows suspected links. What’s more, a Test Coverage Browser helps ensure that all your requirements are covered by tests.

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Collaboration, Wiki & Document Management

As a collaborative platform, codeBeamer ALM helps you orchestrate the work of various teams and disciplines working on several projects. Various features allow for efficient task management, process enforcement, and performance tracking, such as role- and group-based user permissions; configurable workflows; comments; a convenient requirements review feature; a flexible Kanban board (available as an extra feature); and customizable dashboards to help reporting. Reports and diagrams may be created based on custom data queries that help you retrieve and filter data across projects. A complete version history is also provided for all documents that may be stored, shared, and commented upon in the system. Out-of-the-box and custom integrations with widely used software tools further support collaboration.

Advanced Workflows, xLM Support, Business Process Management

Workflows may be flexibly configured and optional guards (with e-signatures) added to enforce processes and facilitate compliance audits. Processes of demand, requirements, and test management may be flexibly defined, with status transition permissions based on user roles or specific users. Using BPM workflows and integrations, you can define, connect and automate different processes across the entire product lifecycle. This enables you to manage the multiple interconnected and overlapping lifecycles involved in the development of embedded and connected (Internet of Things) devices. Consequently, codeBeamer helps you get ready for the challenges faced in Industry 4.0.
Release Management (Agile, SAFe®, Waterfall, Hybrid)

codeBeamer’s Release Planner lets you plan, manage, and monitor the progress of releases, define project milestones, and keep track of spent/estimated resources, whether you’re using Agile, Waterfall or a custom Hybrid methodology. The release system can integrate releases (and, in the case of a scaled Agile implementation, Release Trains) of different processes such as software (Agile/Waterfall) and hardware (Waterfall) development lifecycles, and shows granular details of all the releases and their sub-releases.

Integrations, Export-Import Features

Through REST API, codeBeamer ALM can be easily integrated into any development environment. It offers out-of-the-box integrations with a number of tools: the Enterprise Architect integration allows you to import UML diagrams, the bidirectional Atlassian JIRA® sync plugin helps you ensure data consistency with JIRA®, and SAP integration is also available. Integration is provided with automation tools such as Jenkins, and codeBeamer ALM also offers advanced import-export functionality with various file formats (MS Project, ReqIF, and round-trip functionality with MS Word and Excel).

Industry-specific solutions

Safety-critical product development and compliance are supported by codeBeamer’s preconfigured industry-specific templates. These templates may be used out of the box or configured to custom requirements to support adherence to the requirements of standards in highly regulated industry sectors:

- Intland’s Automotive ISO 26262 Template
- Intland’s Medical IEC 62304 Template
- Intland’s Avionics DO-178C Template

Data Analytics and Reporting

codeBeamer stores all your important production and historical data in its repository, from requirements through to testing and delivery. Its powerful data analytics and reporting features help make sense of all that data to unlock valuable insights. Search and filter data using queries, visualize it using preconfigured charts and diagrams, and analyze data to support decision-making – all with a few simple clicks. Using shareable, exportable automatic data visualization enables you to monitor business KPIs effortlessly, letting you oversee, improve and optimize processes. Dashboards and reports with benchmarks, visualized data, and production insights may be simply created and shared with others.
Feature List

- Demand and requirements management
- Software development project management
- QA & test management functionality
- IT operations & DevOps support
- Risk management features
- Defect, task and issue management (escalations, SLA management)
- Collaboration, document management, and reporting
- Versioning & baselines
- Advanced workflows with BPM functionality, process enforcement
- Integrations and export-import features
- Industry-specific safety-critical templates
- Multilingual: English, German, Chinese

For a detailed overview of codeBeamer’s features and license types, please see our website’s Features page.
Inland Software is an award-winning Application Lifecycle Management (ALM) solution provider.

Inland’s codeBeamer ALM helps you manage the complexity of your software development lifecycles. It is integrated with version control systems Git, Mercurial and Subversion, stores all your data in a single repository for complete integration, and helps you achieve compliance with ISO/SPICE/ CMMI automotive, medical (IEC, US FDA) and aviation (DO-178C) standards.

Via REST API, codeBeamer can be easily integrated in any kind of development environment, and comes with a range of integrations out of the box (Atlassian JIRA®, Enterprise Architect, ReqIF, Microsoft Office, Microsoft Project, IBM DOORS, etc). codeBeamer ALM supports all Agile and Waterfall/V-model methods, and is a fully integrated, comprehensive, end-to-end ALM platform. Through its SAFe® template (with preconfigured Team, Program and Portfolio Levels) it helps scale Agile across large enterprises. For a free evaluation copy, please use the URL below.

To learn more about codeBeamer, please feel free to reach out to sales@intland.com.

Start your free trial of codeBeamer ALM: https://intland.com/download-codebeamer/