

Micro Focus Dimensions CM

Develop your enterprise applications collaboratively, securely, and efficiently.

“With Dimensions CM 14, I am able to integrate continuously while visually displaying the health and quality of release readiness, increasing development velocity and downstream visibility.”

MAXIMILLIAN JANKER
Teamstreet

Move Fast Without Breaking Things

Developers want to go fast. Business wants to go fast. For more than 35 years, Micro Focus's Software Change and Configuration Management (SCCM) solutions have made it possible to turn business ideas into advanced software solutions, quickly, safely, and collaboratively. Every day, thousands of customers depend on Micro Focus® Dimensions® CM to speed development processes, ensure developer collaboration, and increase code quality to deliver software securely.

The world's most highly regulated large enterprises (HREs) demand exceptional tools to meet their extraordinarily complex architecture and technology needs, the plethora of methodologies they use, and the strict compliance mandates they must follow. That's why those organizations rely on Dimensions CM for their most important application development teams that must “move fast without breaking things.”¹

Software Development Is Your Competitive Advantage

Your business depends on custom applications to drive efficiency and competitive advantage, and the demands on application development teams has never been higher nor their work never more critical. Whether development teams are local, geographically distributed, or coordinated through off-shore or outsourcing partners, the speed of application delivery and quality are critical to release readiness and successful deployment.

Custom software products and applications are complex and critically important, and management of risk across the software development and delivery lifecycle is particularly sensitive, especially in highly regulated industries.

The challenge is made more complex where the enterprise is experiencing source code repository sprawl, a common phenomenon with popular Distributed Version Control Systems (DVCS). This can pose many challenges to the product delivery lifecycle and to downstream QA and release teams, who require a consolidated view of the development process, a single version of the truth to effectively coordinate the automation of testing and deployment while avoiding security, compliance, and performance risk. In such an environment, development is increasingly accountable and must provide evidence of the health and quality of their deliverables.

Implementation of DevOps initiatives is driving a focus on centralized versioning, collaboration, and automation across Development, QA, and Operations. The DevOps practice of “Shift-Left”² seeks to provide rapid feedback to development through earlier testing. And increasingly, this includes security because

- 1 Go to www.microfocus.com/campaign/move-fast-without-breaking-things-5-ways-to-manage-sdlc-risk/ to download the *Move Fast without Breaking Things* whitepaper.
- 2 Go to https://en.wikipedia.org/wiki/Shift_left_testing for a discussion on Shift-Left practices.

no enterprise wants to be the next headline, exposing their application security, compliance, or performance risks.

Micro Focus Dimensions CM

Micro Focus Dimensions CM is a proven process-based software change and configuration management (SCCM) solution that streamlines and automates Agile development practices, supporting a choice of industry standard databases, advanced network compression, and advanced library-cache technology.

Supporting modern development practices and an optimized developer experience, Dimensions CM minimizes rework, visualizes and reduces conflicts, and improves team velocity and throughput.

Dimensions CM streamlines the complexity of global collaborative development, increases team velocity, and continuously inspects the health of development. Providing a centralized, secure, and highly scalable SCM repository, Dimensions CM supports high-velocity collaborative distributed teams on complex products while maintaining compliance, reducing risk, and speeding enterprise release readiness.

Integrated Software Change and Configuration Management

Integrating the disciplines, practices, and processes of software change, configuration, build, and release management is crucial to the SDLC infrastructure. Ensuring the repeatability, traceability, and integrity of the application development and delivery lifecycle has become ever more critical with the complexity of modern application development.

Basic file versioning is inadequate for identifying change, and significant time and corrective action are often wasted manually tracking changes that impact broken builds, result in production defects, or, worse yet, incur downtime. Tracking of changes through simple



Figure 1. Change and Branch Visualization

change requests, Agile work items, or change packages mitigates the risk of change, raises visibility, and prevents significant inefficiencies and poor quality perceptions. With Dimensions CM, it becomes easy to track the project artifacts for a particular defect, the changes that were planned and approved for a particular build and release, and, more importantly, why the changes were required.

Powerful and flexible baseline management simplifies the capture and management of project milestones and associated deliverables and serves as immutable records. Preserving the integrity of known baseline configurations simplifies rollback and recovery, streamlines approval, and maintains the integrity of automating builds and deployments.

Hardened Enterprise SCCM Repository

Too many enterprises let the number of source code repositories get out of hand as their development teams stand up their own version control systems. Software change and configuration management (SCCM) should be centralized and “hardened,” reining in any repository sprawl, to protect your IP from unauthorized or malicious changes. Because the adoption of DevOps now increasingly includes

security, Dimensions CM offers fine-grained and integrated access controls, detailed auditing and logging, integrated collaborative peer review, and immutable versioning and history.

Maintain the security, confidentiality, and integrity of your development process, ready for the most protected and defended organizations as well as those who want speed and agility.

Enterprise Scalability

Dimensions CM is scalable to thousands of concurrent users, hundreds of terabytes of storage and millions of file revisions and history. It’s also scalable to hundreds of applications across multiple platforms, from mainframe to mobile, collaborative teams globally distributed and coordinated with offshore and outsourcing partners.

Dimensions CM supports load balancing for high availability and failover for disaster recovery and scales to meet rigorous security and compliance needs of the largest, most complex, and most distributed of application artifacts and teams.

Improved Software Quality

Increasing adoption of continuous integration (CI) among development teams facilitates

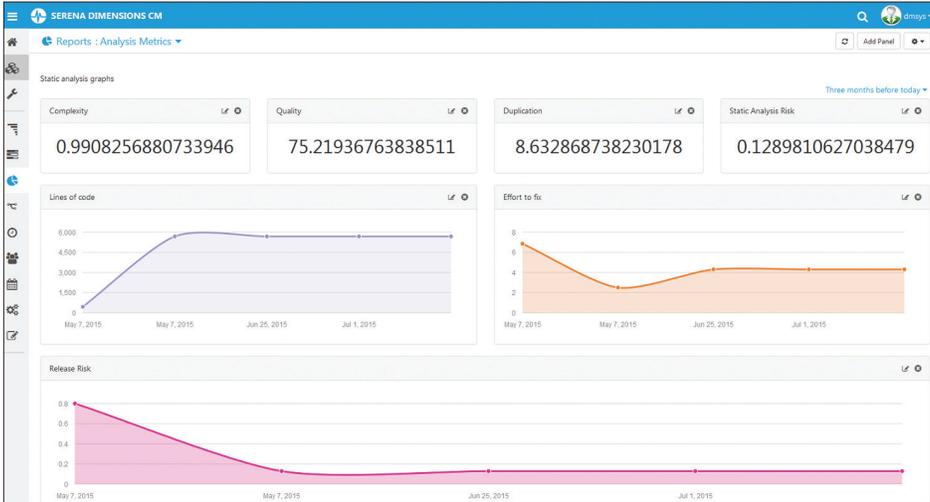


Figure 2. Analysis Metrics

greater accountability in the health and quality of application development deliveries. Automating CI directly as part of the check-in or delivery process realizes a broader integrated toolchain that can demonstrate the associated health and quality of each delivered change and the health of the development stream itself.

Dimensions CM automates a configurable expert toolchain that sequences build tools, coding style tools, code analysis tools, and security or risk analysis tools. By aggregating the expert results, dashboard KPIs or metrics provide valuable insight into the health of development changes. Findings from the expert tools decorate the file in code review, speeding insight and developer resolution. Everything is also visible in the activity view as well as captured within the comprehensive, tamperproof audit trail.

With improved software quality, application development teams can demonstrate predictable and on-time releases, significantly reduce rework, and advance a development culture that delivers speed with quality.

Optimized Developer Experience

Because of increased complexity of application development platforms, technologies, and geographies, a major challenge now is coordinating the complexity of parallel development. Greater volume of software development now requires several active release branches at the same time, and the task of coordinating the merger of new features or patches from one stream to the trunk typically lacks full visibility and has poor insight into the status of ongoing changes. Add little or no collaborative review, and you have a situation that generates unnecessary development churn and causes serious project delays.

With Dimensions CM, collaborative parallel development becomes a core competency that speeds development rather than something to be avoided. Development teams now minimize rework, visualize and reduce conflict, and lower risk while improving team velocity and throughput.

For geographically distributed teams on the WAN, check-in and check-out performance is

just as fast as it is for developers on the LAN, and this is made possible through our unique library cache technology and intelligent delta file transfers that are optimized for global development productivity.

With predictable and consistent development velocity, development can demonstrate higher levels of application quality and a higher degree of responsiveness to the business.

Broad Lifecycle Integration

The software development and delivery lifecycle is often unique, encompassing preferred practitioner tools for agile planning, requirements management, software quality assurance, and deployment.

Dimensions CM supports integration and interoperability with upstream Micro Focus Dimensions RM and downstream Micro Focus Deployment Automation. Integration with HP QC/ALM is also supported.

Through a configurable integrated CI tool chain, Dimensions CM provides continuous inspection into the health of code changes. Providing developers with rapid feedback, together with visual indicators of any findings or vulnerabilities, improves productivity and reduces costly rework and downstream impact. Supported “expert” tools currently include CI, static analysis, vulnerability assessment, and deployment.

Aggregated statistics and trends are captured and reported from continuous inspection, providing visibility and insight into the relative risks and improving confidence levels in release readiness.

No-Touch Compliance

Businesses typically spend inordinate amounts of time and money in preparing and meeting regulatory compliance or internal or external audits. Increasingly, business-critical applications are becoming subject to scrutiny, and only

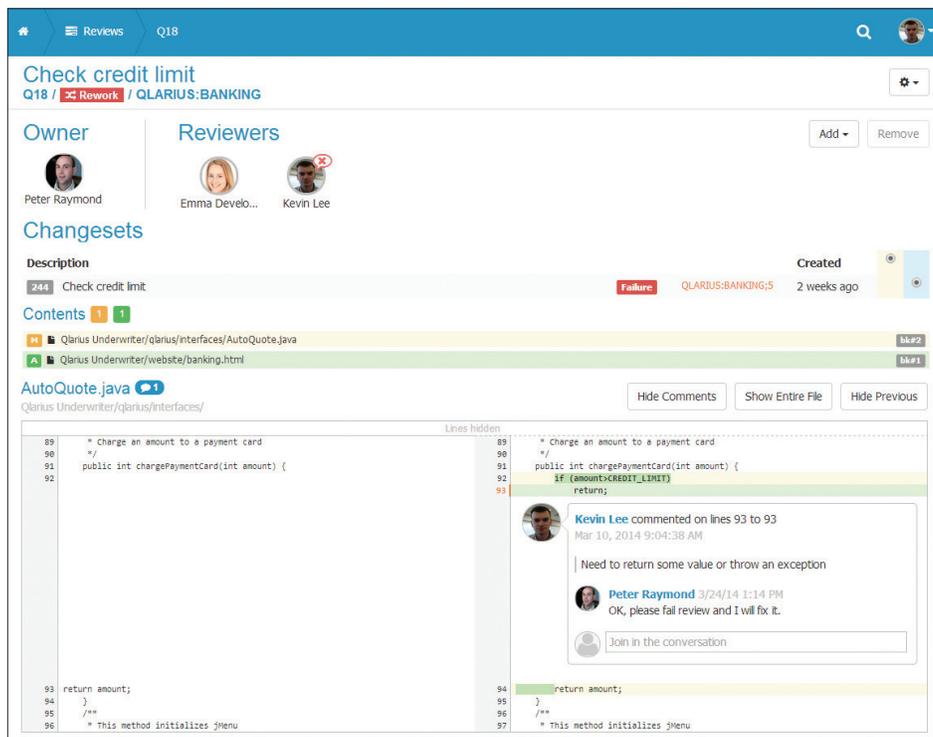


Figure 3. Collaborative Peer Review



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effective and automated application development and delivery practices can streamline processes and mitigate risks. Industry variances compound the challenges and introduce further business risks that may extend from fines and penalties through security breaches to damaged market perception.

Automating the capture of comprehensive and tamper-proof history and audit trails is a mainstay of Micro Focus Dimensions CM, and with the associated software quality and development efficiency indicators, it makes compliance with audit and regulations easy to prove with minimal preparation or effort.