



AllFusion® Harvest Change Manager r7

AllFusion® Harvest Change Manager (AllFusion Harvest CM) helps organizations automate and manage the application development process, and efficiently track and report on software changes in the distributed development environment. Offering an easy-to-use GUI, web interface, and efficient repository-based multi-tier architecture, this solution efficiently manages development teams across the enterprise, regardless of which platforms and tools they are using.

Top Three Key Features

- Automatic, Centralized Tracking of Software Changes
- Integration With Popular Development Tools and Environments
- Custom Definition and Automatic Enforcement of Processes
- Extends to Manage Mainframe Development Assets

What's New

- New Platforms, Tool Support and Development Environments
 - New Support of Third-Party Diff/merge Utilities
 - Expanded Reporting
- Performance and Scalability Updates

Software Change Management (SCM) Challenges

At every point in the application development life cycle - from design to testing to production - development organizations must address a continuous flow of complex changes to application source code. Faced with competitive pressures and increasing market demands, developers have less time to implement changes than in the past. Many organizations - especially those heavily invested in web technology - might have to deliver new applications in weeks rather than months. With the added pressure that only top-quality, error-free applications can be allowed into production, the challenge to successfully track and implement application code changes can seem insurmountable.

As IT and Business groups seek to align more closely, there is a shared responsibility for business accountability and profitability. Business Service Optimization (BSO) provides a framework for ensuring efficient communication, implementation and management of IT functions with explicit relationship to business objectives. Organizations tasked with regulatory compliance initiatives like Sarbanes-Oxley require the implementation - and demonstration - of rigorous control systems and detailed change auditing.

Benefits of Process-Driven SCM

Industry best practices such as the IT Infrastructure Library (ITIL) recommend that good IT management processes are best implemented through the centralization, automation and analysis of key functions. AllFusion Harvest delivers a single enterprise-wide solution for tracking software changes and managing the application development process. Through simple point-and-click and drag-and-drop operations, AllFusion Harvest helps you control changes to application software and documents, keep development schedules on track and make sure that team members and business users are always up-to-date with the latest status information. Developers can meet demanding delivery schedules while maximizing productivity, reducing development costs and improving application quality.

AllFusion Harvest scales to handle projects of any size, from the largest client/server enterprise systems to smaller, mission-critical developments. In addition, by integrating AllFusion Harvest with AllFusion Change Manager Enterprise Workbench and AllFusion Endeavor Change Manager, you can extend SCM support to the mainframe for unparalleled application life cycle management across the enterprise. Additionally, AllFusion Harvest works with other tools, such as Niku Clarity, Unicenter Service Desk and Unicenter Software Delivery to support IT governance in line with CA's Business Service Optimization (BSO) framework.

Distinctive Features and Functionalities

Change Management. AllFusion Harvest helps ensure that all software changes are planned, justified and approved. Properly managing the process of change can protect your organization from costly change-related problems and increases its ability to absorb the impact of application changes without an adverse effect on normal business operations.

Problem Management. Software problems identified by both manual and automated sources can be automatically tracked. This enables proactive problem management and resolution, provides accurate management of day to-day problems and questions, and helps ensure that each change fulfills specific business requirements and follows a predefined, repeatable strategy.

Process Management. AllFusion Harvest manages the complex work flow that drives almost every application development project with a simple, easy-to-understand 'package' concept. It automates routine tasks such as code migration between development and production stages, and the status reporting of change requests by end users.

Defect Tracking. Application defect information found by quality assurance (QA) analysts can be collected and disseminated in an accessible, intuitive and usable fashion. This enables both QA and development personnel to query project data easily, and allows defects to be tracked through the software development life cycle.

Reporting and Metrics. AllFusion Harvest provides performance metrics in the form of real-time, standard and customized reporting. It features customizable reports that explain complex trends and status updates simply and easily, including drill-down queries and graphical charts. This enables any authorized user to track and analyze activity by users, developers, QA personnel, production control personnel and others

Support for Popular Development Tools. AllFusion Harvest integrates with leading development tools, including Eclipse, IBM Rational Application Developer (formerly WebSphere Studio), Microsoft Visual Studio .NET and Borland JBuilder, and more. Developers participate in a rigorous change management regime 'invisibly' - without changing the way they work, or the development tools they use..

Open and Extensible Change Management System. The AllFusion Harvest Software Development Kit (SDK) provides organizations the ability to extend the solution in new ways, and better integrate change management processes with your existing IT management systems.

Web Client. Developers and managers can perform AllFusion Harvest functions via a web browser, providing users of "thin clients" with the benefits of process-driven SCM without complex client installations.

Agent Technology. Users perform AllFusion Harvest actions on remote file systems, regardless of their platform. For example, you can easily check in and check out code from a UNIX file system from within your development environments on Windows workstations.

Web-Enabled Status Reporting and Approvals. Business users, managers and analysts may review and approve changes online with a web browser,

reducing the need for the rollout and management of client software.

Centralized Administration. AllFusion Harvest provides business-centric overviews of software development life cycles throughout a development organization, drilling down to detailed project, package and user-specific information. Administrators may monitor, control and manage all critical aspects of SCM operation from one central location. This provides greater security and better enforcement of standards, while greatly reducing the cost and complexity of administering your organizational software change policies.

Central Source Code Repository. AllFusion Harvest removes the inefficiencies that developers experience in locating the most up-to-date versions of team-developed code, and contributing their updates. With fast, easy access to a single 'source of truth', developers spend less time searching for (or recreating) code and more time delivering real business-focused solutions. Administrators can easily describe and enforce complex parallel and concurrent team development models, with additional support for native and third-party merge and differencing tools. In addition, backup administrators have a greatly simplified administrative task of archiving and restoring all mission-critical development assets.

Efficient Networking. AllFusion Harvest uses a highly efficient networking and communication architecture, providing minimal network impact and maximum desktop performance across LANs or WANs.

Enterprise Viewpoint. AllFusion Change Manager Enterprise Workbench (available separately), extends AllFusion Harvest and its sister solution, AllFusion Endeavor, to accommodate distributed and mainframe development projects within a common SCM process model.

Complete, Rapid Implementation. All the tools and documentation needed to successfully implement AllFusion Harvest are included, allowing your projects the benefit of a complete, integrated process-driven change management system in the shortest possible time. CA's Professional Services team is also available to provide expertise and assistance to ensure your quick transition to process-driven SCM using AllFusion Harvest.

Out-of-the-Box Usability. Many common development scenarios and life cycles are supplied as templates, which allow new development projects to be initiated efficiently and effectively. New templates can be easily created to suit the unique requirements of each development group.

Electronic Notification. Electronic notifications can be sent regarding any type of task or issue that must be addressed, enabling users to notify each other quickly and automatically when work is done and the next step must occur.

Form and Procedure Automation. You can transform paper-based forms into an electronic format and automate manual procedures to follow a standard life cycle. This can reduce the number and complexity of your forms and processes, and provides an electronic audit trail of all requests. A built-in wizard facilitates the process of creating, deploying and activating important forms.

Impact Analysis. AllFusion Harvest Change Manager Openmake Option maintains information on the interdependencies of compiled application code. This helps you rapidly identify components that make up a specific executable to better assist in application troubleshooting.

Source-to-Executable Synchronization. With AllFusion Harvest Change Manager Openmake Option, you can trace an executable back to the source that created it. This provides a mechanism for auditing any software module in production and gives your organization a clear picture of the processes, history and source code that created the executable.

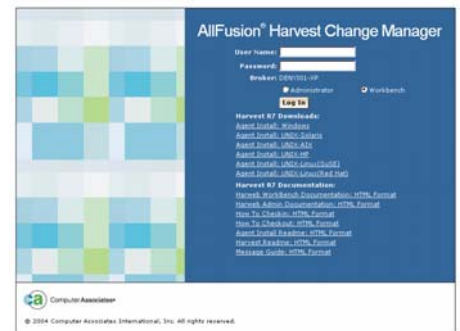


Figure 1. The AllFusion Harvest web client provides easy access for any contributors to an organization's change management processes.

What's New in r7

New Datastore Platforms. Provides new installation and maintenance utilities for implementing AllFusion Harvest utilizing Open Source Ingres r3 as a datastore, significantly reducing the system's Total Cost of Ownership. Existing support for the use of the Oracle RDBMS is extended to support release 10g.

New Support of Third-Party Diff/Merge Tools. Adds the flexibility to replace built-in merge and difference functions with a tool of the developer's choice. Provides more choices for developers and collaborating teams to review and efficiently resolve code conflicts.

New Platforms and Development Environments. Adds support for SUSE Linux (Intel), HP Itanium, Eclipse 3, and Borland JBuilder.

Expanded Platform and Tool Support. New functionality for MVS and USS environments, PowerBuilder development, Eclipse and Rational Application Developer (formerly WebSphere Studio Application Developer), Apache Tomcat, SMTP and LDAP.

Usability Improvements. Based on user consultations, greater flexibility offered for developers working on source code and change packages to efficiently manage their environment. Improves the ability to

check out code to developer desktops more efficiently, unlock change packages, and alter the file type properties of code already being managed by the system. The web interface has been enhanced and streamlined. New installation procedures make it even easier to have AllFusion Harvest up and running quickly.

Expanded Reporting. New reports for auditing the detail of forms, with an updated reporting framework.

Security Updates. Provides greater control over access to administrative functions and better protect sensitive data. More options provided for the secure use of the CLI (command line interface), as well as security updates for the AllFusion Harvest Remote Agent technology.

Performance and Scalability Updates. Building on gains built into the r5 release, r7 provides improvements for geographically dispersed teams, including specific improvements for WAN usage

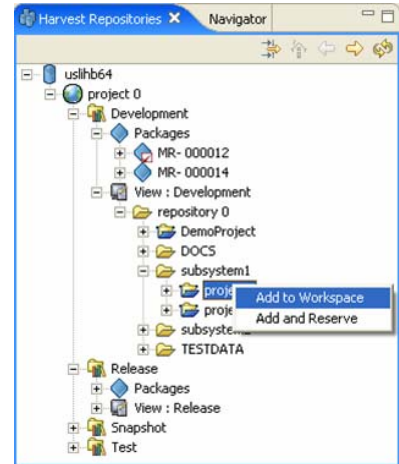


Figure 2. AllFusion Harvest CM integrates seamlessly with popular development environments, such as the popular Eclipse open source framework. (Eclipse also underpins tools like IBM Rational Application Developer for WebSphere Software.).

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