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Enterprise SCM Trends and Solutions

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MKS Integrity Solution Update and Release Preview

Stacia MacLeod-Rockwood

Application Engineer, MKS Inc.

Agenda

- Introduction
- Enterprise Software Configuration Management (SCM)
- Since We Last Met
 - Build Management
 - Build & Deployment Module
 - Mercury Test Director Integrations
- *Coming in February 2004 – Integrity Solution 4.6*
- Solution Demonstration
- Choosing an Enterprise SCM Solution
- Questions

MKS Corporate Overview

- Provider of enterprise software configuration management solutions since 1984
- Strong Global 1000 penetration
- 26,000 seats of enterprise SCM installed since July, 2001
- HSBC, DaimlerChrysler, Pharmacia, Johnson & Johnson, Continental Teves, RBC
- Public - TSE:MKX



Build Better Software™

About MKS

MKS has more than fifteen years of experience in helping the software development community build software applications more easily, reliably and with high quality.

We offer a [software configuration management \(SCM\) and process and workflow management solution](#) for enterprise software development teams working in a distributed, multi-platform environment (UNIX, Win/NT and iSeries). As a part of our overall solution, we also offer tools for source code analysis, which help software development organizations rapidly comprehend complex software systems, assess the impact of changes to code before they are implemented, and improve the quality of their source through coding standards automation.



- Second largest financial and banking institution in the world
- Chose MKS as enterprise SCM standard for worldwide development, enabling 24/7 follow the sun global development initiative
- MKS solution now being implemented in eleven countries across 8,000 person development organization

Conseco Finance is a long time customer of MKS, having purchased our Implementer product 5 years ago to control production and distribution of applications on the iSeries platform. They recently acquired Source Integrity Enterprise Edition and Integrity Manager to control the development of 7 new web-based applications that will be running on open systems (i.e. UNIX and Win/NT). One of the main reasons they expanded their commitment with us was because of their desire for consistency across their software development teams. The best example of this consistency can be found in the integration of Integrity Manager with Source Integrity **AND** Implementer. Having the ability to control process and workflow (i.e. defect tracking processes) on all their platforms with a single tool is very compelling for them.

Enterprise SCM – The Time Has Come

"The need for software configuration and change management becomes compelling in 2003. Once the province of developers and system administrators — and usually buried deep within IT — software change and configuration management is evolving into a key process element in the business management of IT."

Jim Duggan, Vice President and Research Area Director, Application Development Management

Gartner, Inc

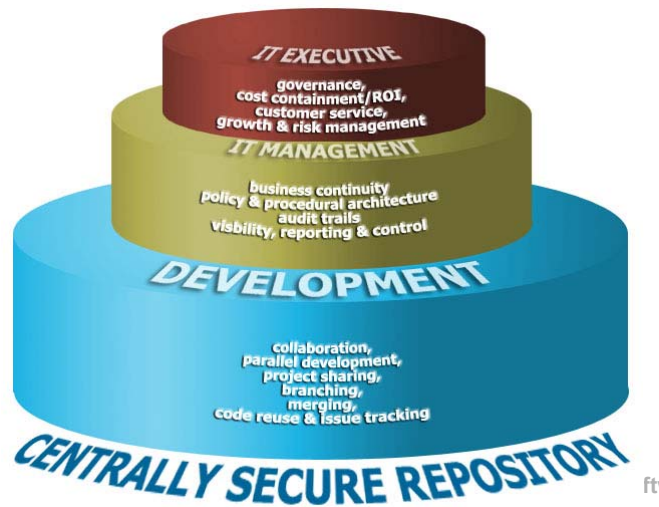
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Enterprise SCM Trends

- 'Show me the ROI'
- 'Support my increasingly agile processes and project management'
- 'Integrate and manage everything I have'
- 'Support my virtual development team'
- 'And manage it from beginning to end'

- *Giga/Forrester IT Trends 2003, Midyear Update: Software Configuration Management*

Enterprise SCM – Delivering Value Across the Organization





Application Life Cycle and MKS



MKS Source Integrity/Implementer™

Enterprise multi-platform software component repository enables global collaboration
Facilitates re-usability and reproducibility of software projects

MKS Integrity Manager™

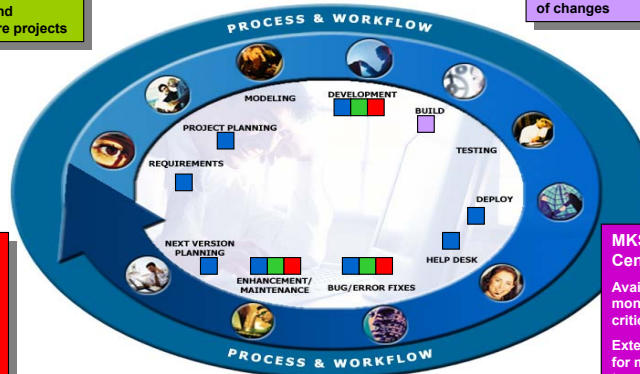
Defines, Manages and Measures software dev processes
Process automation ensures repeatability, minimizes delays
Ensures secure and standardized software deployments across platforms

MKS Openmake™

Enterprise Build Platform facilitates consistent build process
Minimizes costly build errors and ensures smoother implementation of changes

MKS Federated Server Architecture™

Real time global development team collaboration
Reduces administration burden & lowers software development costs
Minimizes code conflict & need for resolution



MKS Alert Centre/Toolkit™

Availability monitoring of critical IT assets
Extends capabilities for multi-platform teams

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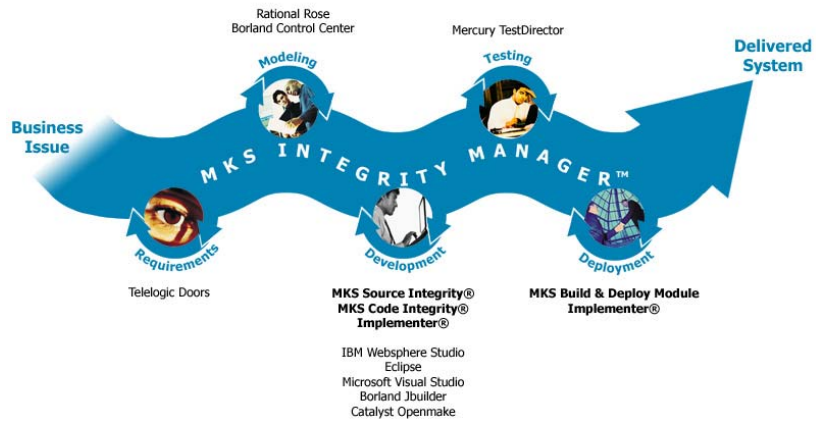
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Since We Last Met...

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THE SOFTWARE DEVELOPMENT PROCESS



Build Better Software™

New - Integration With QA & Testing

- Integration with Mercury Interactive Test Director
 - Versioning of test plans and scripts
 - Links defects to source code
 - Enforceable development process for defect resolution
 - Routes bugs captured by Mercury Test Director back to the development process
 - Ties source code to bug and inventory of changes
 - Ties features to bugs



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Test Director 7.6 & 8.0 Defect Module with Integrity Manager 4.5

GA date is January 20th, 2004

New - Enterprise Build & Deployment

- Extends SCM control to production environment
 - Single tool deploys code across multiple platforms
 - Maintains deployment consistency and quality with repeatable processes
 - Eliminates errors by automating manual processes
 - Saves money by leveraging your investment in existing build utilities such as ANT and Openmake

Build Better Software™

Openmake is a software development tool designed to automate the creation of reliable applications through the use of a repeatable software build process. Openmake is designed to eliminate the risks associated with developing Enterprise and eBusiness applications by ensuring that executables are created according to an organizations business objectives the same way every time.

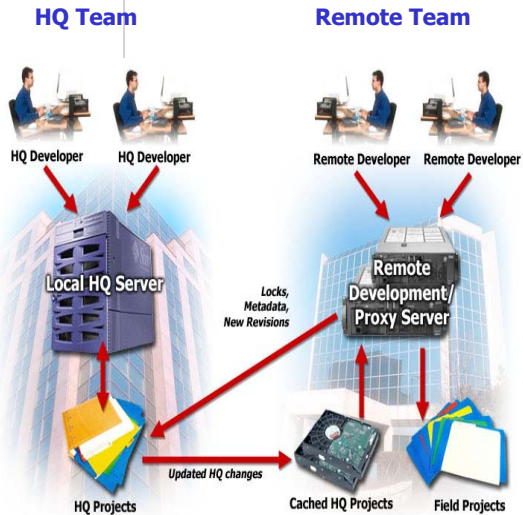
Openmake allows users to record site specific build requirements into a single customizable knowledgebase and then generate a standardized build at any time.

Openmake will improve your build process by:

- streamlining application development by automating the creation of executables
- eliminating errors in production by ensuring that executables are always created using specified compiler options and the right versions of source code
- shortening the development lifecycle by enabling users to distribute application component builds across multiple machines
- reducing application deployment time by supporting true incremental builds

And now, by combining the MKS Integrity Solution with Openmake, you can centralize and automate the entire build process within your overall software development process. Your build files reside in an MKS Source Integrity Enterprise Sandbox™

FSA - Real-Time Global Collaboration



- Enterprise development no longer bound to same physical location
 - Availability of local talent
 - Better customer service in foreign markets
 - Leverage development talent; "follow the sun" model, etc
- Require Real-time Access to Global Development Repository, independent of location and delivers the following benefits:
 - Keeps entire team informed of progress
 - Avoids unnecessary coding conflicts, resulting in higher project costs
 - Reduces administrative overhead by managing centralized repository
 - Provides better management visibility; especially for offshore contract teams

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**And More for February
2004...**

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Key Capabilities Coming in
MKS Integrity Solution 4.6

MKS Integrity Solution 4.6

- Extends MKS's enterprise SCM leadership with new advanced capabilities in SCM, process & workflow management & integration to the enterprise
 - New Open API for easy enterprise integration!
 - Integration with mainframe CM!
 - Waterfall and Iterative development process templates!
 - Advance change package functionality!
 - More, much more...

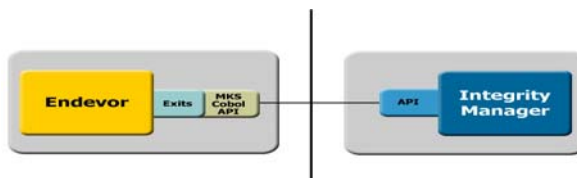
Open API

- Fully documented and supported JAVA API enables seamless integration into enterprise development environment
- Points of access:
 - JAVA
 - COBOL adapter on zSeries – used by Endeavor integration
 - RPG adapter on iSeries – used by Implementer integration
- Many integration scenarios enabled by the API:

Scenario	Example
Server to server –	Integrity Manager with a Help Desk
Client to server –	Doors with Integrity Manager
Client to client –	IDE's with Source Integrity Enterprise

Change Management Support for the Mainframe

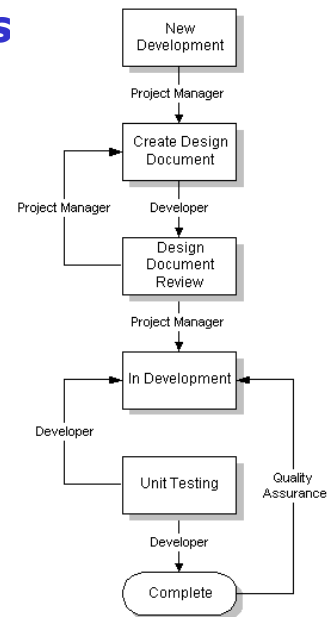
- Via new Cobol adaptor and Open API
- Single web-based change management solution for controlling interdependent development across multiple platform
- Leverages investment in existing mainframe CM
- CA Endevor first delivered integration



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New Process Templates

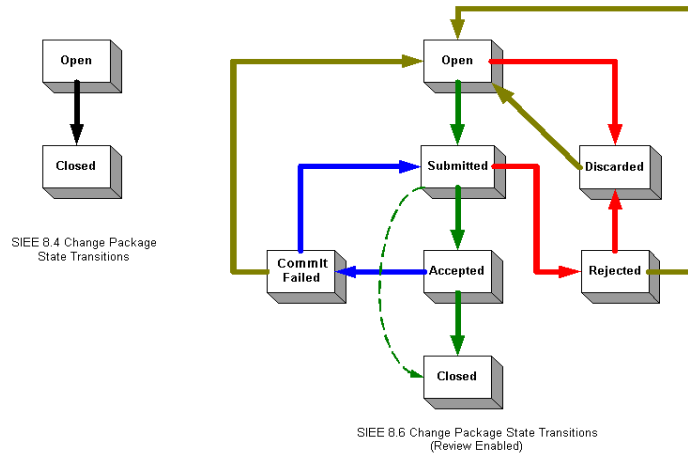
- Jump start process implementation with process templates for Waterfall and Iterative development processes



Expanded Change Package Capability

- New CP capabilities put MKS to the front of the market
- Staged CP review provides a built-in mechanism to easily implement formal, **enforceable** review processes – changes are reviewed **before** they are committed to repository
- Atomic transactional CPs and ApplyCP enhancements provide more powerful change management abilities
- Ability to modify CPs and better views of CPs enhances usability, improves productivity
- Full trigger support allows for process customization and automation – lower administrative burden, higher productivity

Change Package State Model



Enhanced Conversion Utilities

- New conversion utility to ease conversion from desktop SCM and competitive solutions
- VSS, PVCS, among others
- Conversion and training of PVCS project & team in less than 5 business days
- Certegy, HSBC, May Department Stores, Union Bank of California all have migrated to enterprise & MKS



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Solution Demonstration

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MKS – The Leader in Enterprise SCM

Trends in Enterprise SCM	MKS Integrity Solution
Show me the ROI..	MKS offers significantly lower TCO through low administration, implementation & training
Support my increasingly agile processes..	MKS offers highly flexibly process and workflow that adapts to any development methodology
Integrate and manage everything I have..	Integrations into leading development, QA tools + new Open API keeps solution open and integrated
Support my virtual development team..	MKS's innovative Federated Server Architecture gives global development organizations real-time collaboration
And manage it from beginning to end..	MKS Integrity Solution manages the SDLC from issue creation to deployment to production

Build Better Software™



Our enterprise customer roster speaks for itself. MKS currently has more than 10,000 users of its software worldwide. Our SCM and Interoperability solutions are found in blue chip, Fortune 1000 corporations such as these...

For More Information

- Visit www.mks.com
- Speak with myself or Howard Smith after the presentation
- Email hsmith@mks.com
- Phone: 410-420-2371

Thank you for attending!



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Q & A

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