Enterprise SCM Trends and Solutions

MKS Integrity Solution Update and Release Preview

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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

HSBC

- 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

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

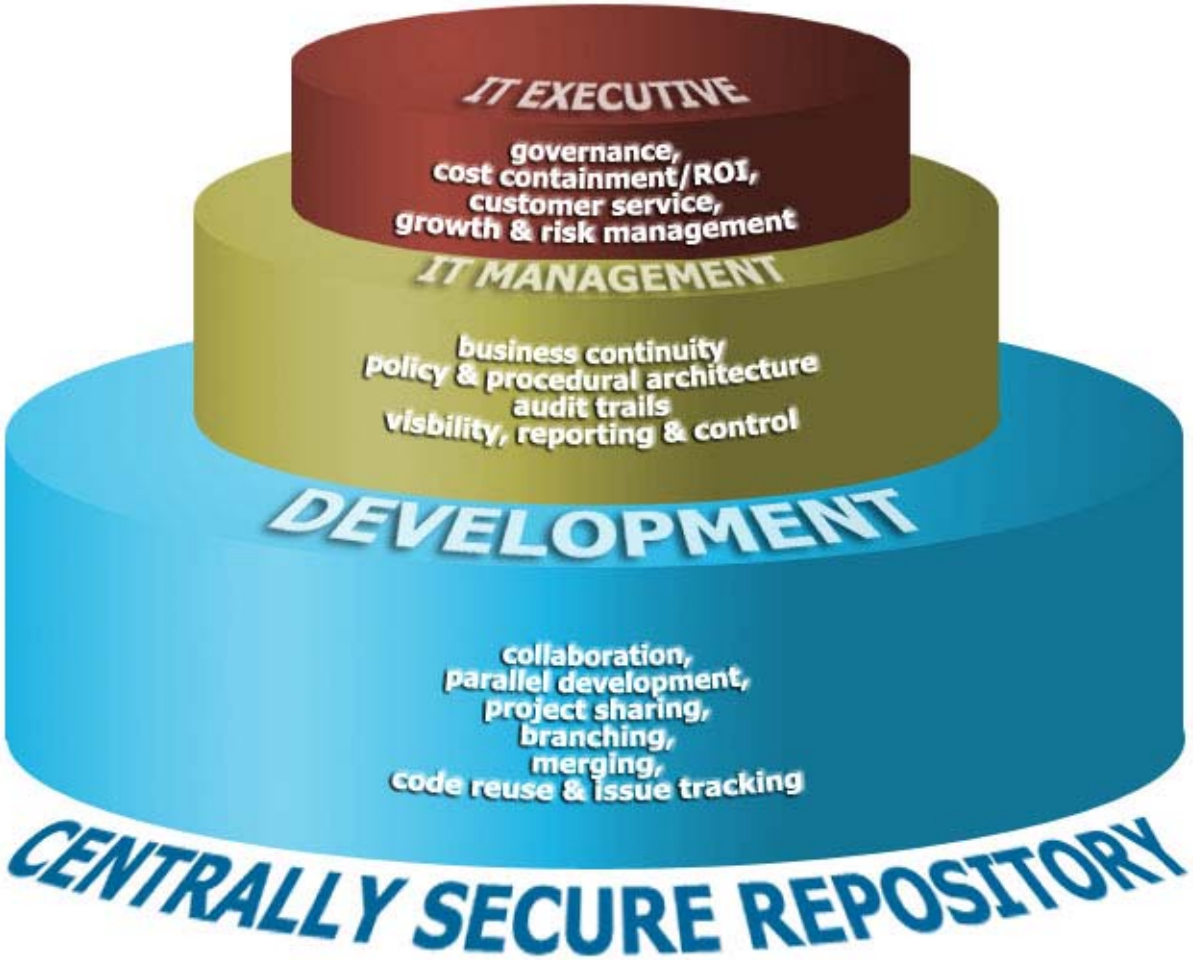
Gartner, Inc

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 Integrity Manager™

Defines, Manages and Measures software dev processes

Process automation ensures repeatability, minimizes delays

Ensures secure and standardized software deployments across platforms

MKS Source Integrity/Implementer™

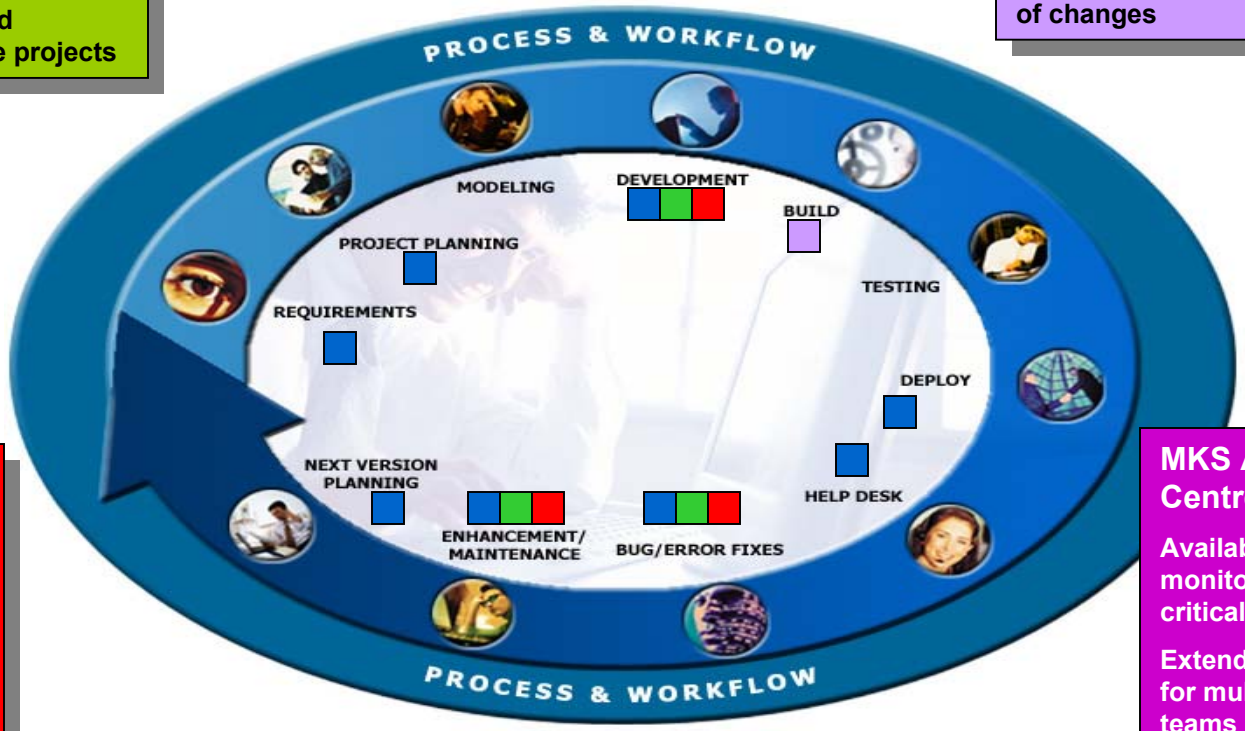
Enterprise multi-platform software component repository enables global collaboration

Facilitates re-usability and reproducibility of software projects

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 esolution

MKS Alert Centre/Toolkit™

Availability monitoring of critical IT assets

Extends capabilities for multi-platform teams

Build Better Software™

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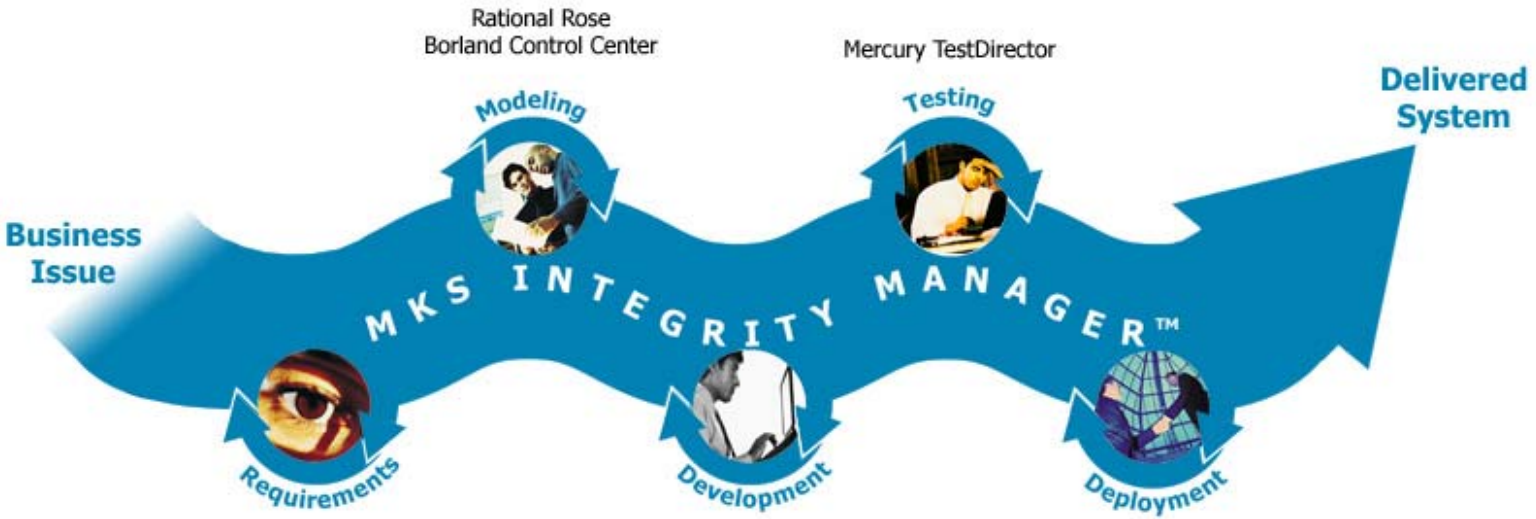
Since We Last Met…

THE SOFTWARE DEVELOPMENT PROCESS



Telelogic Doors

MKS Source Integrity®
MKS Code Integrity®
Implementer®

IBM Websphere Studio
Eclipse
Microsoft Visual Studio
Borland Jbuilder
Catalyst Openmake

MKS Build & Deploy Module Implementer®

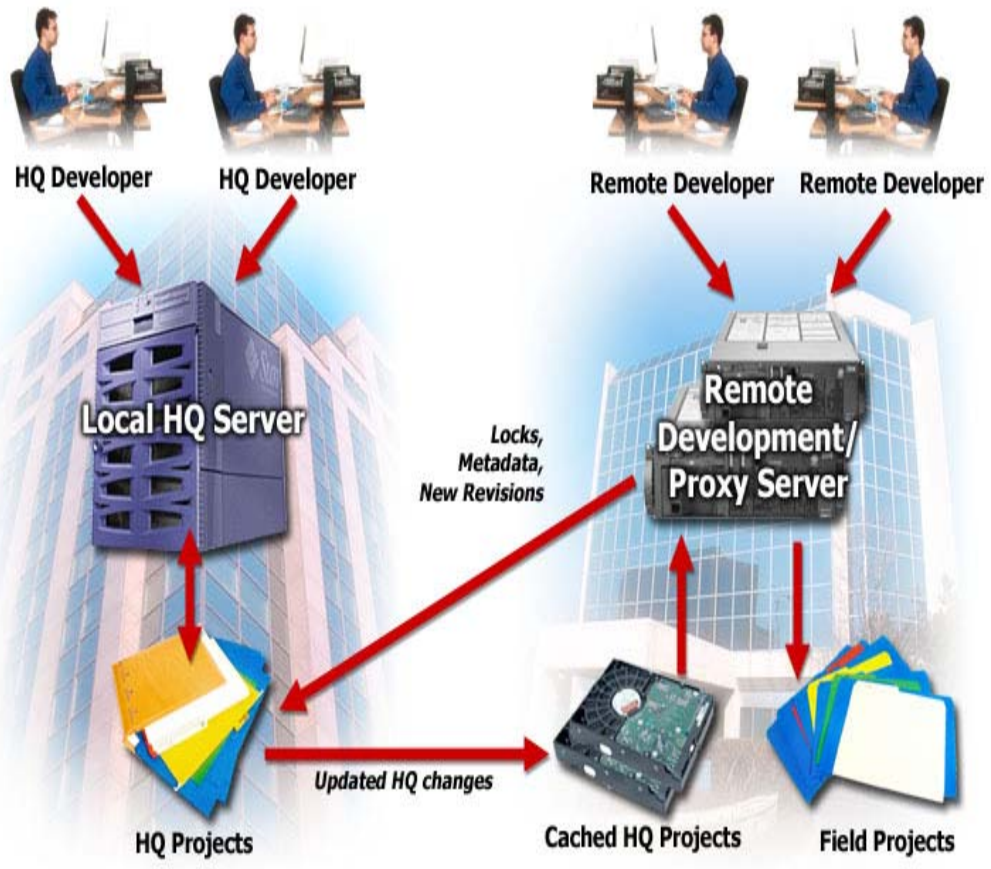
New - Integration With QA & Testing

- 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

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

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…

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…

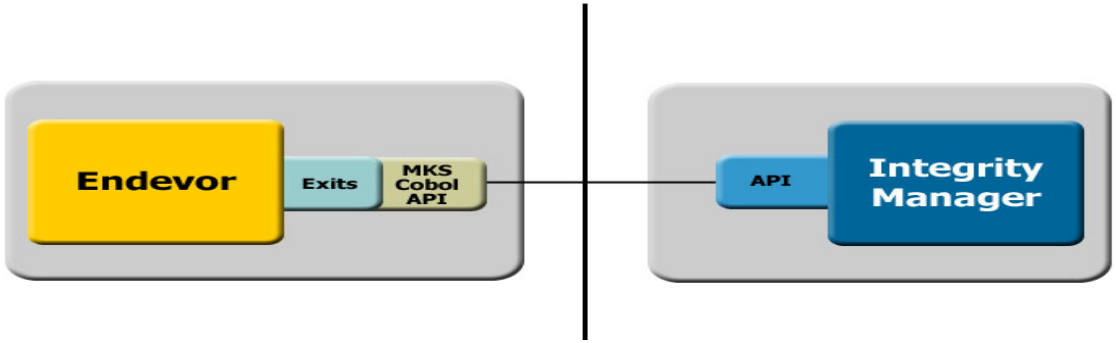
Open API

- Fully documented and supported JAVA API enables seamless integration into enterprise development environment
- Points of access:
  - JAVA
  - COBOL adapter on zSeries – used by Endevor 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

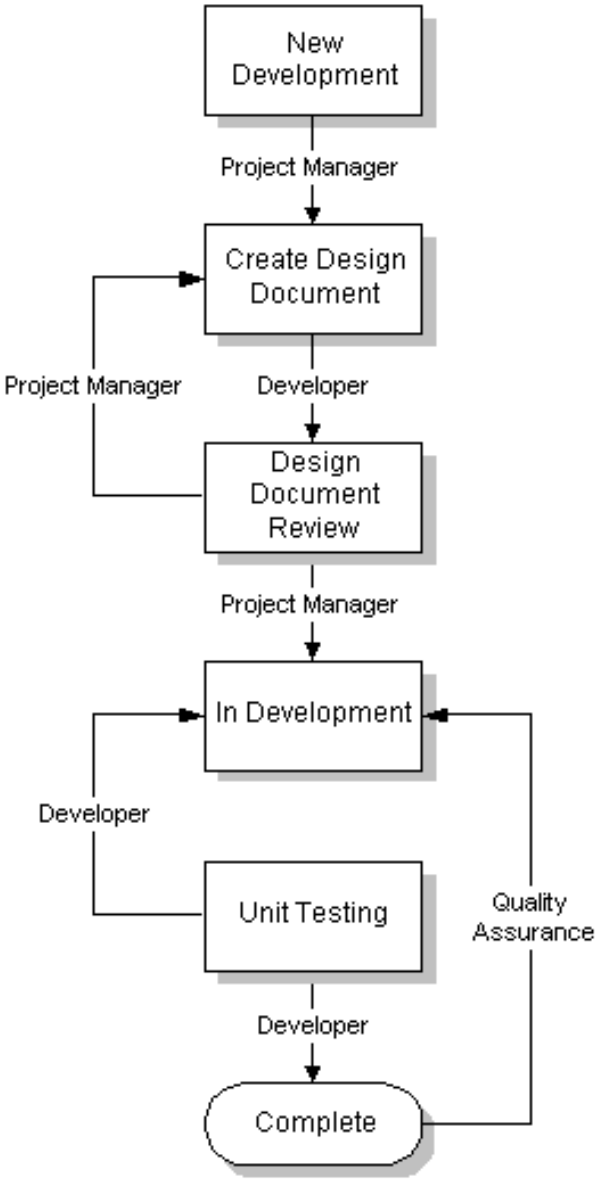
Change Management Support for the Mainframe

- 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



New Process Templates

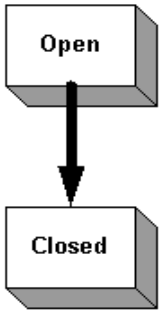
- Jump start process implementation with process templates for Waterfall and Iterative development processes



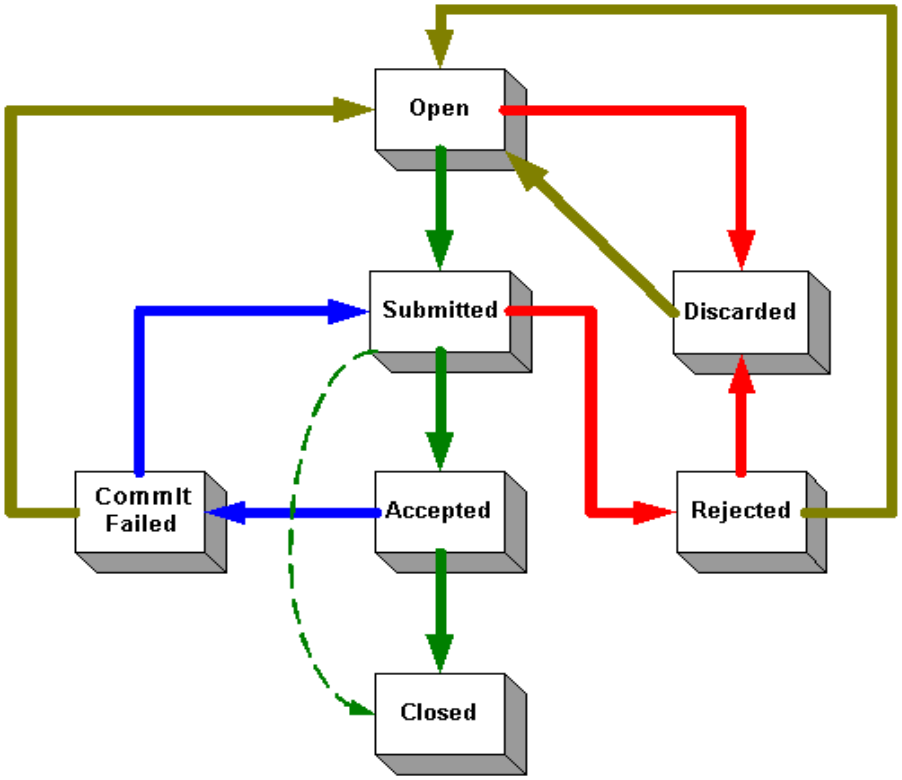
Expanded Change Package Capability

- 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



SIEE 8.4 Change Package State Transitions



SIEE 8.6 Change Package State Transitions (Review Enabled)

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

ublic Sandbox getClosestSandbox(String fileName) {
tSiDirectoryServices();String absolutePath = null;File abs = null;if (fileNam
Solution Demonstration
oAbsolute(getUiContext(),new File(fileName));absolutePath = NativeFile.getCanonical
etNativeDirectory(absolutePath,false); } else {absoluteDir = getUiContext().getCwd

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

Customers

HSBC

YORK INTERNATIONAL CORPORATION

Campbell's

Continental TEVES

NOKIA Connecting People

hp invent

Cisco Systems Empowering the Internet Generation

Lockheed Martin

TD Bank Financial Group

NCR Transforming Transactions into Relationships

Lucent Technologies Bell Labs Innovations

RBC Insurance

SIEMENS

Union Pacific Corporation

EDS

MOTOROLA

BOSCH

For More Information

- Visit www.mks.com
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Thank you for attending!

MKS Integrity Solution Update and Release Preview

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