Rational. software

IBM RATIONAL SOFTWARE DEVELOPMENT USER CONFERENCE



software runs the world



04

Software Runs the World

Mike Devlin General Manager



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Agenda

Transforming software development



Preparing developers for an On Demand world



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Transforming software development



Preparing developers for an On Demand world



Software runs the world.

- 1. Software built with development platform.
- 2. Wireless app designed without a glitch.
- 3. Latest interface deployed under budget.
- 4. New product launched ahead of schedule.
- 5. Better software leaves competition in dust.

Imperatives in Today's World

Innovating the business to capture new value.

Business



IT

Improving the productivity of resources deployed.

Becoming an On Demand Enterprise

"An on demand business is an enterprise whose business processes—integrated end-to-end across the company and with key partners, suppliers and customers— can respond with speed to any customer demand, market opportunity or external threat."

Business Anoceases Innovative An IT operating Business environment business designs that sharpen focus optimized for Design Technology flexibility and and accelerate resilience Infrastructure growth Integrated, end-to-end business processes that are built to change

Software Development Differentiates Business Performance *Capture and apply your unique knowledge*





Transforming Software Development Business-Driven Development

Business

NEW AND EXISTING ASSETS

IT

Component and Service-Oriented Architectures



Transforming Banking Bank of New Zealand Standardized on the IBM Software Development Platform

Challenge

 Differentiate by providing tailored financial solutions

Solution

- Bring Internet Banking operations in-house
 - Develop unique applications
 - Leverage customer knowledge
 - Adopt a common process

Results

On time and budget delivery
 Improved competitive position



"Not only was our Internet Banking project a success, it also gave us a platform to build upon that will give us a competitive advantage going forward."

Rachel Beath Online Solutions Manager

Transforming Health Care Blue Cross Blue Shield of Florida Standardized on the IBM Software Development Platform

Challenge

Reduce costs and align IT with business needs

Solution

IT Software Factory

- Four divisions build reusable CRM, ERP, Claims, and Decision Support assets
- "Architecture first" approach, beginning with business modeling

Results

Accelerated delivery of business solutions "Reusing assets and information is at the core of what we're doing to create business value. With the Rational toolset and WebSphere Studio, we have a highly responsive environment that allows our extended team to collaborate in real time, speed delivery and ultimately reduce costs."

Ricardo Garcia, Director of Capability Development, Blue Cross and Blue Shield of Florida



Transforming Systems Integration Unisys Standardized on the IBM Software Development Platform

Challenge

 Differentiate Unisys in the systems integrator marketplace

Solution

- 3D Visual Enterprise
 - Unique consulting framework

Results

- Accelerated client success
 - 25-40% cycle time
 - 75-100% productivity
 - 25-60% cost savings



UNISYS Imagine it. Done.

"IBM Rational forms the kernel of our 3D Visual Enterprise solution. Using Rational tools and best practices has helped us achieve a 6 to 18 month market lead over our competitors."

Ed Ferrara, 3D-VE Program Development Manager

Transforming Government United States Patent & Trademark Office Implemented the IBM Software Development Platform

Challenge

Transition to eGovernment Solution

Integrated approach to Enterprise Architecture

- Solution Architecture and Pattern Based
- Asset Reuse
- Iterative Development
- Model-driven Architecture w/UML

Results

 FEA standards compliance
 Reuse across LOB's
 eGovernment Services for Citizen and IT transformation



"The USPTO's integrated enterprise architectures have allowed us to adopt advanced development practices required for delivering eGovernment solutions in an efficient manner."

> Barbara Dutton, Office of the CIO



Focus # 1: Discover Assets Optimize Business Investments



Identify and analyze
Business processes
Requirements
Software Assets
Packaged applications
Existing applications
Middleware
Impact of potential change

Business process optimization is the #1 priority in 2004 --Information Week Study 2Q04 – 400 business-technology executives

Focus # 2: Develop Assets Improve Time-to-Value

BUSINES IBM SOFTWARE SNOT A TURK DEVELOPMENT PLATFORM dotan LNamao

Dramatically accelerate the development cycle Rapid application development Model-driven architecture Asset based development Direct-to-middleware productivity Service-oriented architecture Tightly integrated run-time test and deploy Anytime, anywhere, team collaborative environments

Focus # 3: Deploy Assets Deliver Business Results

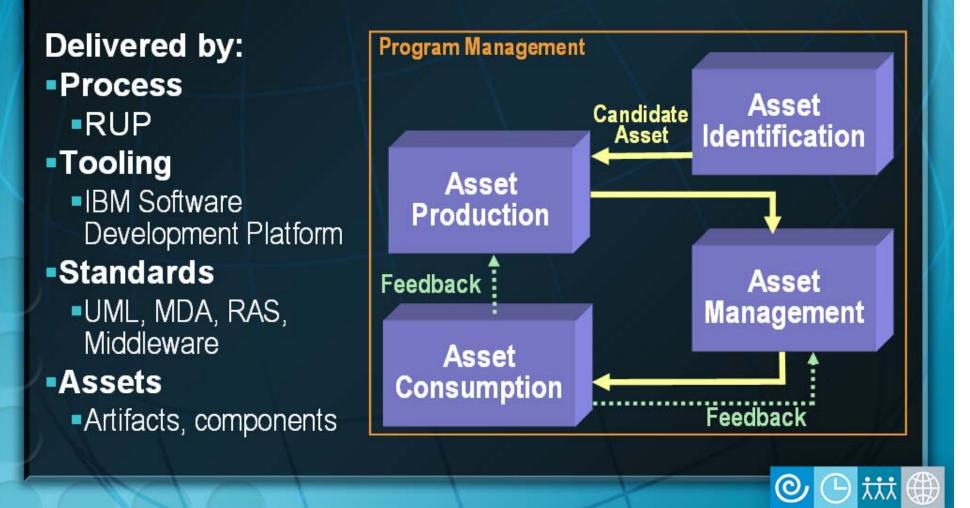


Enable closed-loop deployment

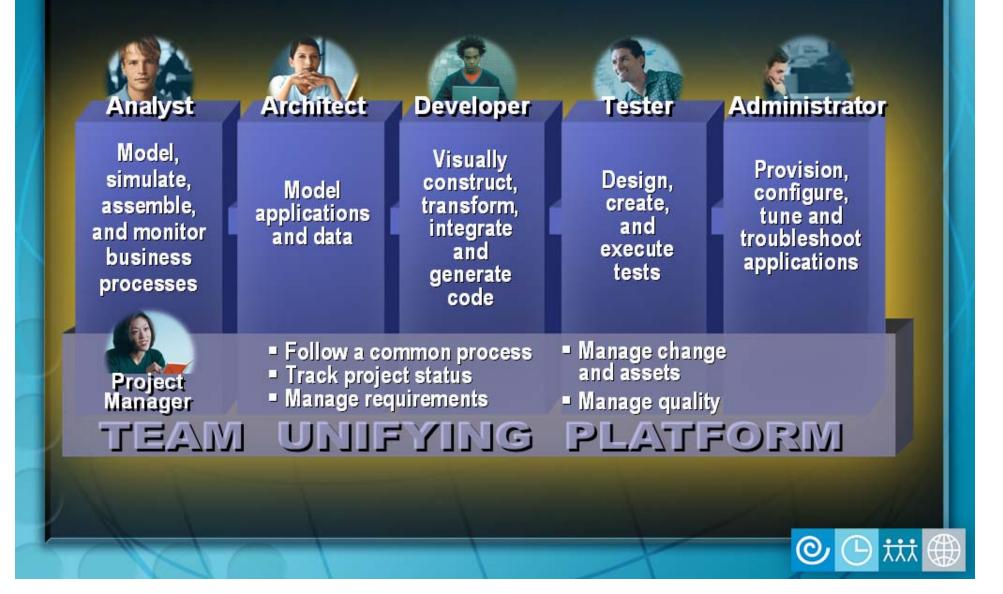
- Unify development and operations teams
- Accelerate deployment and provisioning
- Automate applications monitoring
- Monitor business performance and analyze ROI
- Verify and manage change

Asset-Based Development

(Re)using requirements, design, construction, test, and deployment assets to leverage software investments in packaged, existing and new applications.



The IBM Software Development Platform A complete, open, modular, and proven solution



Delivering a Robust, Open Infrastructure The Eclipse Universal Framework



Project

Manager

Customer Extensions Architect Developer

Tester Administrator

0

Requirements & Analysis

Design & Construction

Software Quality

Deployment Management

ECLIPSE

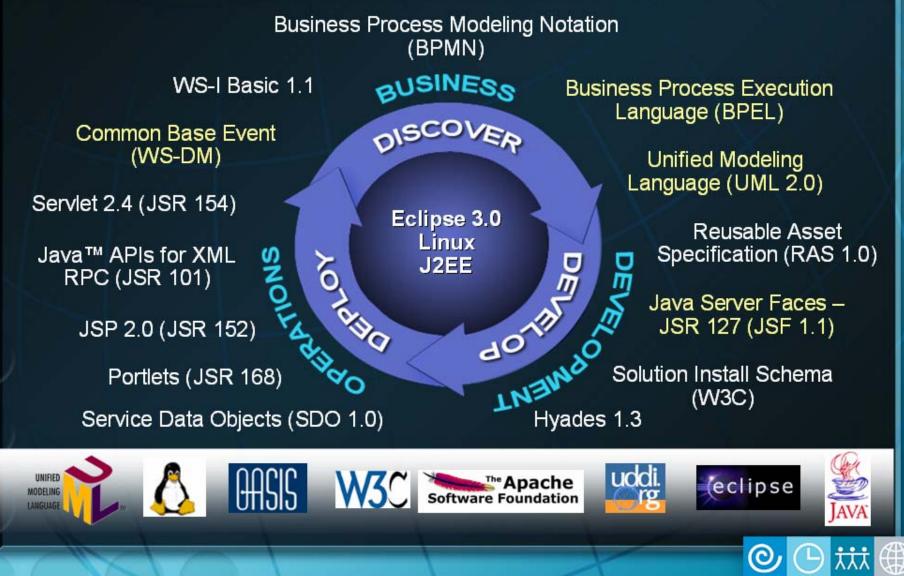
- Role-based user interfaces
- Common models for integration across lifecycle
- Powerful extensibility

Process and Project Management

Software Configuration Management

TEAM UNIFYING PLATFORM

IBM: Driving Industry Standards Driving convergence for developers



Today's Announcements New products and programs enrich the IBM Software Development Platform

Lifecycle Integration

- Deeper, richer integrations
 Eclipse, Hyades, UML 2.0
- Simplified design & construction
 - Drag-and-drop UI construction with JavaServer Faces and Service Data Objects
 - Rapid Deployment to WebSphere, Visual Refactoring

New software quality solutions

- New test & analysis tools for architects, developers, testers, and operations
- Improved .NET, Java, zSeries support
- Enhanced distributed development
 - Remote ClearCase client, Eclipse ClearQuest client, remote MultiSite administration

Open and Extensible Ecosystem

- Expanded Eclipse 3.0, Linux, and C/C++ support
- New tools for IBM Workplace
 - WebSphere Studio Device Developer
 - Workplace Builder
 - API Toolkit
 - Workplace Designer
- New installation and patch toolkit
- New components for building analytics into applications (Alphablox)
- Expanded developerWorks resources
- alphaWorks tools preview

Agenda

Transforming software development

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Preparing developers for an On Demand world



Demo

Lee Nackman Chief Technology Officer, Rational software



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Demo: Integrated Development with the IBM Software Development Platform



- Query for assigned work
- Understand requirements
- Visualize use cases
- Access process and tool guidance
- Visualize application interaction (UML 2.0)
- Check out code
- Implement web service
- Build new page (JSF)
- Compare changes and check-in code
 - **Close enhancement request**



- Create and execute functional test
- Validate test passes
- Validate enhancement request



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Transforming software development

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Preparing developers for an On Demand world



Preparing Developers for an On Demand World

Buell Duncan General Manager IBM ISV & Developer Relations



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IBM: Driving Industry Standards



What is Driving Businesses to Become On Demand?

Business

Challenging Economy

Security Threats

Productivity

Mergers & Acquisitions

Pricing Pressures

Privacy Issues

Customer Expectations

Deeper integration of IT with business The emergence of on demand business

Standards

in techn Commoditization

Blades

Linux

Clusters

Grids

Autonomic Computing

Virtualization

on Service Oriented Architecture Legacy Systems

Technology





What is Driving Businesses to Become On Demand?

ntegration



On Demand Operating Environment: Integration

On Demand Operating Environment





Integration

Information Integration

Business Business Modeling

Performance Management

Access

Collaboration

Products

Architecture

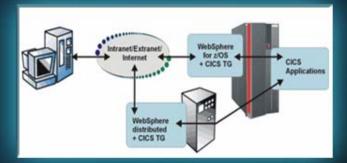
Standards

Service Oriented Architecture (SOA) Connectivity Layer

Process Transformation



Transformed user interface and workflow for quick return on investment Transformed business processes using Web services and Java connectors





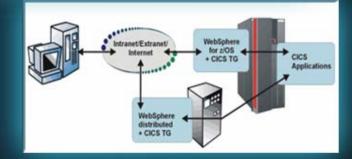
Transformed applications and data with tools for discovery, development and deployment of legacy assets



Process Transformation

SIEMENS

Trai and workflow for quick return on investment





Transformed applications and data with tools for discovery, development and deployment of legacy assets



Collaboration

- Personalized single point of interaction with other people, information and applications
- Customizable and dynamically adaptable based on business priorities
- Integrated e-mail, instant messaging, team spaces, Web conferencing, etc.



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spherion

IBM: The Right Platform for Development

Rational	Software Development Platform for the entire development life cycle
WebSphere	Platform for application and process integration
DB2	Platform for information integration
Tivoli	Platform for autonomic computing and security
Lotus	Platform for workplace integration
eServer	Platform for Linux and POWER architecture

Marketplace Leadership

IBM leads in Software Development Platform;

600,000+ Rational users

Over 450,000 companies rely on IBM DB2 Information Management solutions

\$1 billion annual investment in Engineering, \$5 billion in technology acquisition

IBM offers over 50 industry-tailored business integration solutions that span 11 industries

IBM leads in all areas of Integration, including Application Integration, Portal, Business & Information Integration*

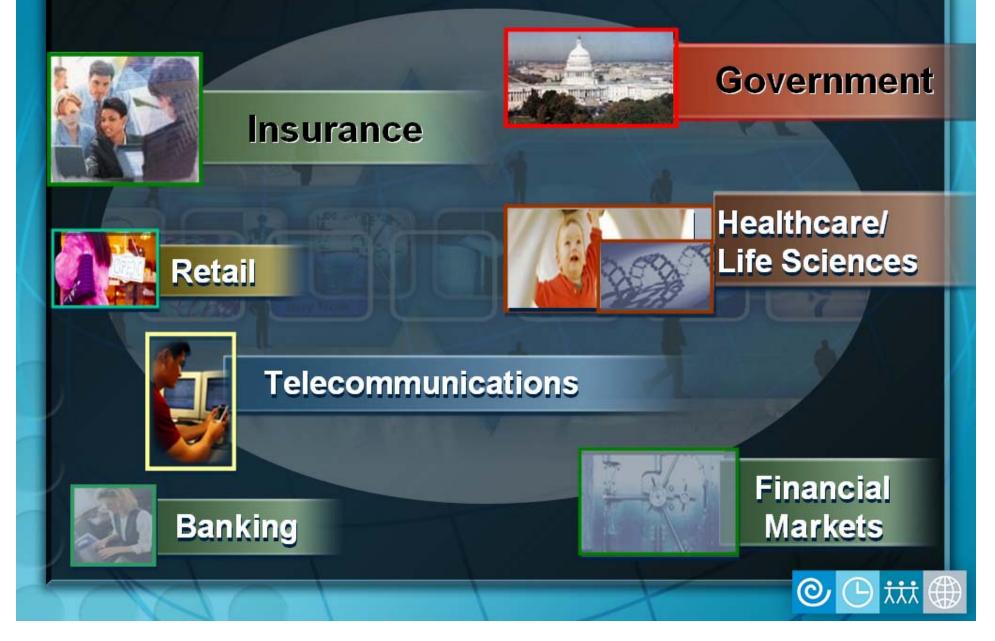
IBM WebSphere customers include 91 of the top 100 global companies (2003)

2,000 customers rely on WebSphere Business Integration

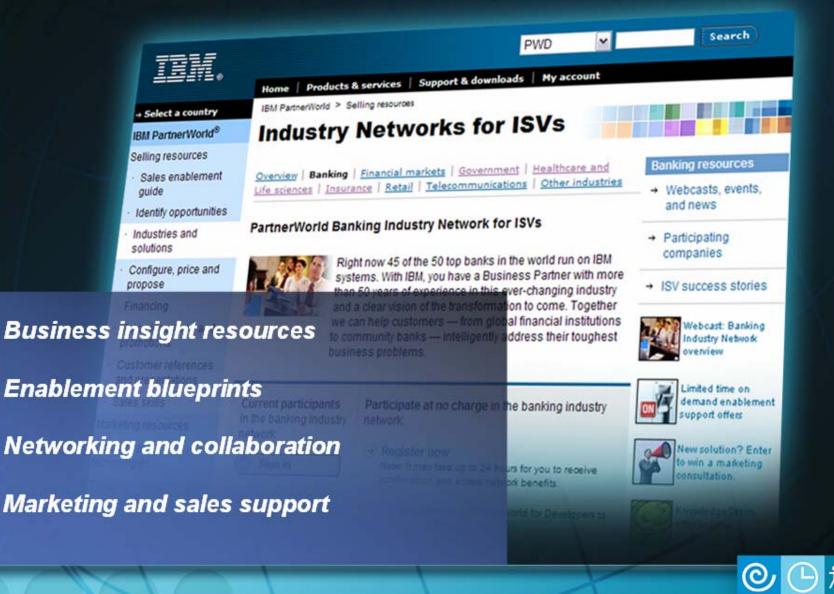
Sources: Gartner, Sept. '03, Oct.'02 Aberdeen, Sept. 02



PartnerWorld Industry Networks...



ibm.com/isv



ibm.com/developerWorks

Product Communities

Latest on Open Technologies

alphaWorks

Localized Sites -China, Japan, Korea



Online & Offline Training

Product Downloads

Q/A Forums

How-to Articles

Sample Code

Blogs

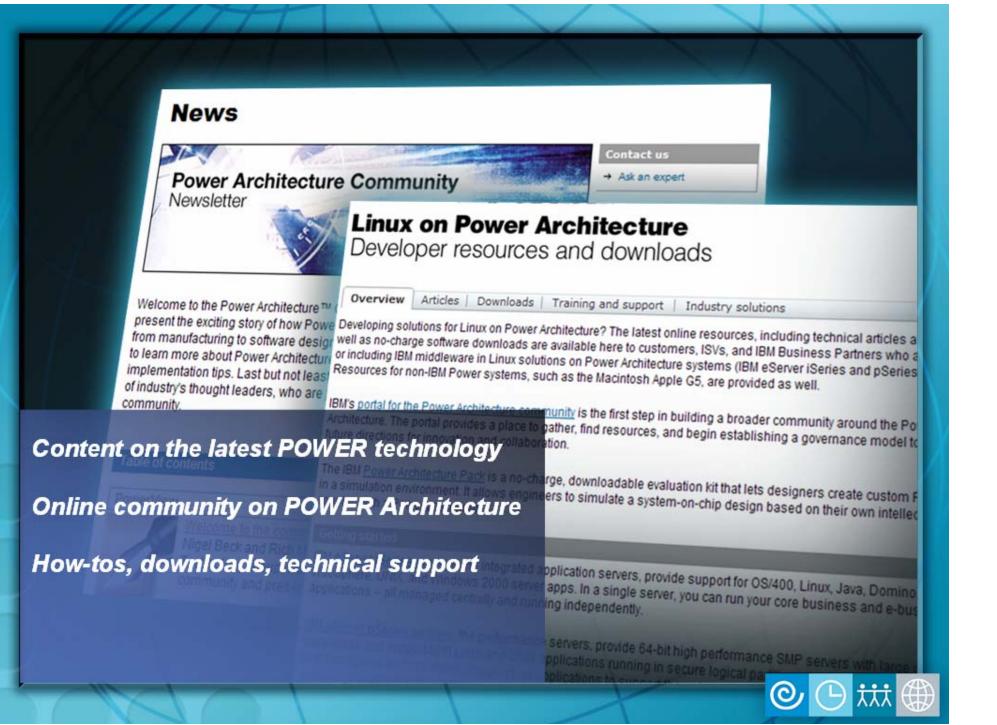
RSS Feeds

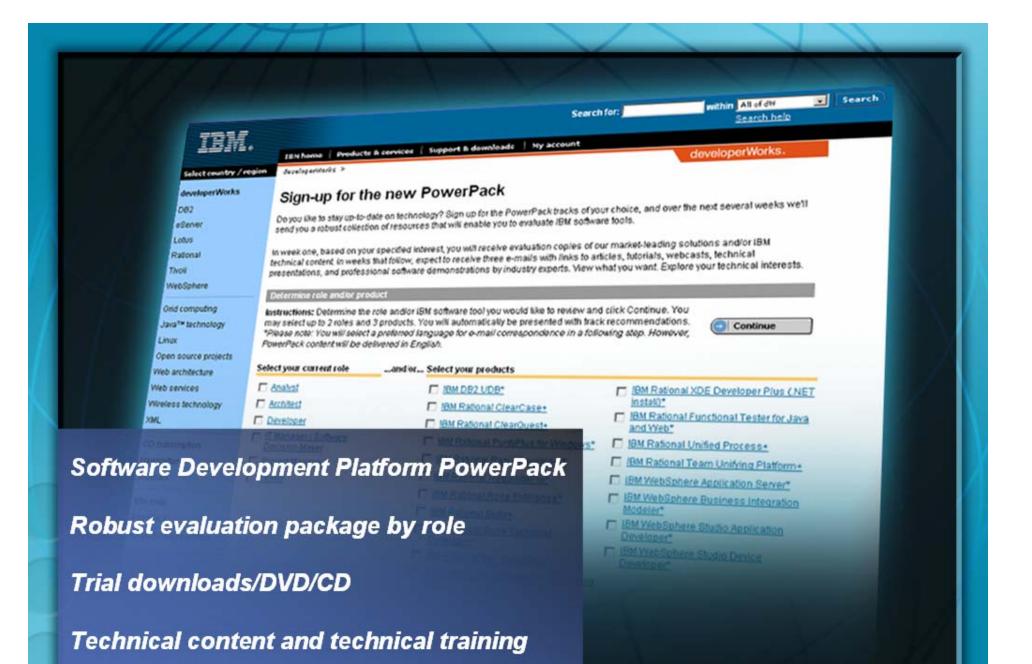
On Demand Software Development

- Sample scenarios & solutions
- Patterns for e-business
- Migration station
- Software Development Platform resources

Newsletters







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Object-Oriented Model of the IBM Rational ClearCase Region.

A systematic and comprehensive

approach to capturing supplementary requirements using IBM Rational

How To Manage 5000 Releases A Year This presentation is about release management -- how to manage large

Here you will find a list of webinars showing what Rational tools can do for

What, No Supplementary

Specification?

RequisitePro.

numbers of releases. Webinar Schedule

management

Downloads, CDs, support, demos, webcasts, white papers, Rational Edge, Web based training, plug-ins, discussion forums, user groups, InBrief newsletter

Assets & patterns, kits index, Rational Development accelerators, RUP plug-in exchange

Next Steps



