The IBM Rational Software Delivery Platform
Product Overview

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<td>Align business goals, best practices and projects for improved productivity and predictability</td>
<td>Model, design and rapidly build resilient architectures for SOA, systems and applications</td>
<td>Ensure software functionality, reliability security and performance in development and production</td>
<td>Improve effectiveness with process automation, build management, reporting and traceability</td>
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### Rational Software Architect
- Advanced Model-Driven Development (MDD) and static analysis for architects / developers creating Service Oriented Architecture, J2EE and portal applications.

### Rational Application Developer
- An IDE for software developers to quickly design, develop, analyze, test, profile and deploy SOA, Java, J2EE, and portal applications.

### Rational Business Development Extension
- A comprehensive IDE for Enterprise Generation Language (EGL) - an easy to learn, rapid development technology that enables any developer to deliver cross platform web and Service Oriented solutions.

### Telelogic System Architect
- Tool for planning and modeling enterprise architecture, including data architecture, business processes, and IT infrastructure. Includes repository for team access.

### Telelogic Rhapsody
- UML® 2.1 and OMG SysML™-based MDD environment for system, real-time or embedded systems and software engineering.

### Rational Asset Manager
- Solution to generate, modify, govern, and locate any type of development artifacts, including SOA and systems development assets.

### Rational Systems Developer
- An IDE for embedded systems developers that enables software architects to create well-architected C/C++ and Java J2SE applications leveraging UML 2.0.

### Rational Rose family
- Tool for visual modeling of software architectures, databases and requirements using UML® 1.

### Telelogic Software Modeler
- A UML 2.0-based visual modeling tool for architects, systems analysts, and designers for creating and communicating systems and software specifications.

### Rational Transformation Workbench
- Solution to quickly transform existing core IT assets and discover reusable business logic for creating services.

### Telelogic Studio Asset Analyzer
- Provides insight into dependencies within & among Java™ application components, composite applications that span mainframe and distributed components.

### Rational Developer for System z
- Solution to create IBM z/OS® operating system--based applications including traditional CICS, IMS, COBOL, PL/I, Web, Web services and XML-based applications.

### Rational Developer for System i
- Integrated development environment for edit/compile/debug of traditional RPG/COBOL/C/C++/i5/OS applications.

### Telelogic Tau 2 and SDL Suite
- MDD solutions for IT and Systems projects, using SDL (SDL Suite) and UML 2 (Tau 2) standards.

### Rational Functional Tester
- An automated functional and regression testing tool for testers and developers who need to test Java, VS.NET, Web-based & 3270/5250 composite applications. Add-ons available to support Siebel, SAP, Oracle and Citrix Presentation Server-based applications.

### Rational Performance Tester
- A performance test creation, execution and analysis tool to validate the scalability and performance of web-based software systems. Add-ons available to support Siebel, SAP, Oracle and Citrix Presentation Server-based applications.

### Rational Performance Tester for z/OS
- A performance testing solution to test web-based applications and leverage the System z platform for super scalability of the tests.

### Rational Tester for SOA Quality
- A functional and regression testing tool to ensure the quality GUI-less Web services.

### Rational AppScan
- A solution to ensure the security and compliance of web applications throughout the software development lifecycle.

### Rational Policy Tester (WebXM)
- Web-based platform for scanning, and reporting on Privacy, Quality and Accessibility compliance issues impacting corporate web properties.

### Rational Manual Tester
- A manual test authoring and execution tool that promotes test step reuse to reduce the impact of software change on testers and business analysts. (Included with Rational Functional Tester)

### Rational ClearQuest
- For defect and change management Rational ClearQuest provide process automation, reporting, and defect and change tracking across the project lifecycle.

### Rational PurifyPlus
- Runtime analysis tools for improving the reliability and performance of Java or C++ code.

### Rational Test RealTime
- A cross-platform solution for component testing and runtime analysis for embedded, real-time, and other types of cross-platform software products.

### Rational Robot
- An automated functional and regression testing for thick client applications (Visual Basic, Oracle Forms, C++, PowerBuilder, etc).

### Telelogic Logiscope
- A functional quality assurance tool that automates code reviews & detects error-prone modules in C, C++, Ada 63 and 95 and Java software.

### Telelogic Tester
- Systems and integration testing solution using TTCN-3 test language.

### Rational ClearCase
- A highly scalable software asset management tool that provides a repository and version control for medium to large projects.

### Rational ClearCase Multisite
- An option to Rational ClearCase to support geographically distributed projects through repository replication.

### Rational ClearQuest Multisite
- An option to Rational ClearQuest to support geographically distributed teams.

### Rational Build Forge
- Automated build and release management solution for high performance, reliable software builds.

### Rational Build Forge Express
- Automated build and release management solution for high performance, reliable software builds designed for small and midsize businesses.

### Rational SCLM Advanced Edition for z/OS
- Version control and build support for the IBM z/OS platform.

### Telelogic Synergy
- An easy-to-deploy, task-based configuration management solution with support for distributed teams of all sizes.

### Telelogic Change
- A web-based fully integrated change management solution for change request tracking and reporting.

### Telelogic Project Console
- Project-level metrics tracking and reporting for the Rational tools.

### Telelogic Dashboard
- Project-level metrics tracking and reporting for the Telelogic tools.

### Rational Team Concert
- Collaborative solution integrating source control, change and build management, designed for Agile method development and dispersed teams.

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1 Additional bundles of products are available.
IBM Rational Software Development Platform

GOVERNANCE DASHBOARD

Solutions for geographically distributed development, compliance, SOA

Process & portfolio management
- IBM Rational® Portfolio Manager
- IBM Rational Method Composer
- Best practices content (IBM Rational Unified Process®, IBM Tivoli Unified Process®, Portfolio Management)

Requirements & analysis
- IBM WebSphere® Business Integration Modeler
- IBM Rational RequisitePro®
- IBM Rational Software Architect
- IBM Rational Software Modeler
- IBM Rational Rose® Data Modeler

Design & construction
- IBM Rational Software Architect
- IBM Rational Software Modeler
- IBM Rational Application Developer
- IBM Rational Systems Developer
- IBM WebSphere Integration Developer

Software quality
- IBM Rational Performance Tester
- IBM Rational Functional Tester
- IBM Rational Manual Tester
- IBM Rational PurifyPlus

Change & configuration management
- IBM Rational ClearCase®
- IBM Rational ClearQuest®
- IBM Rational Team Unifying Platform™
- IBM Tivoli Provisioning Manager
- IBM Tivoli Configuration Manager
- IBM Tivoli Intelligent Orchestrator

Partner ecosystem & open computing
Eclipse™, Linux®, Microsoft® Windows®, UNIX®, IBM z/OS®
Business Driven Development Offerings

Requirements and Analysis

Benefits
- Drive business needs throughout projects
- Ensure regulatory compliance
- Leverage existing assets and SOA architectures

Capabilities
- Analyze business workflows & activities
- Capture business requirements
- Model enterprise and data architectures

Key Products
- IBM Rational RequisitePro
- IBM Rational Software Modeler
- IBM WebSphere Business Integration Modeler
- IBM WebSphere Studio Asset Analyzer
Manage requirements

- **Enhancement Requests**
  - Understand and track requirements
  - Manage changes to requirements

- **Project Managers**
- **Test Cases**
  - Define test cases on requirements

- **Requirements**
  - Validate by modeling user interactions
  - Manage changes to requirements

- **Team**
  - Testers
  - Developers

- **Use Cases**
  - Project Admin.

IBM Rational RequisitePro
Discover existing assets and design new systems

IBM WebSphere Studio Asset Analyzer
IBM Rational Transformation Workbench
Model the business and system architecture

- Document business processes
- Capture enterprise assets
- Design software and system architectures
Business Driven Development offerings
Design and construction

GOVERNANCE DASHBOARD

Process & portfolio management → Requirements & analysis → Design & construction

Business driven process

Change & configuration management → Software quality

Benefits
- Improve productivity and time to value
- Maximize quality, robustness, reusability
- Maximize value of code and models
- Choice of development styles

Capabilities
- Coding, unit testing and deployment
- Code visualization/editing
- Modeling, round-trip engineering, model execution
- Legacy Integration
- Rapid application development

Key Products
- IBM Rational Web Developer for WebSphere Software
- IBM Rational Application Developer for WebSphere Software
- IBM Rational Software Architect
- IBM Rational Systems Developer
- IBM Rational Technical Developer
A spectrum of design and construction styles

Adopt the right paradigm for your needs

- Different projects need different development styles
- IBM offers products that address any and all of these styles
- Teams can gradually move to higher levels of abstraction over time
Build, test, and deploy Web, Web services and Java applications

- **Web UI construction**
  - Visual site layout tools
  - Drag-and-drop web client construction supporting: HTML, JSP, Servlet, Struts, JSF and SDO
- **Rich Client UI construction**
  - Visual Editor for Java for rich client composition
  - Supports Swing, AWT, SWT widgets
- **Tools for Web services, Database, XML, EGL**
- **Eclipse Java Development Tools**

*Page Designer with JavaServer Faces support*

**Drag and drop JSF components**

**Visual layout and design**

**Quick Edit View for scripting**

**Point-and-click data connectivity**

*IBM Rational Web Developer for WebSphere Software*
Build, analyze, test, profile, and deploy Web, Web services, Java, J2EE, and portal applications

- Includes all of the functionality in Rational Web Developer
- Component/Unit Test
- J2EE/EJB Tooling
  - Supports J2EE 1.3 and 1.4
  - Rapid Deployment for WAS v6 and integrated WAS test environments
- Portal/Portlet Design Tools
- Code Analysis Tools
  - Both static source code analysis and dynamic runtime analysis
- UML Visual Editors
- Includes: Rational ClearCase LT and the RUP configuration for Java Developers
UML-based visual modeling and design

- **UML 2.0 Modeling**
  - UML 2.0 Diagrams
  - UML Profile Editor

- **Pattern/Transform Authoring**
  - Sample UML-to-code transforms for EJB, Java, and C++

- **Reusable Asset Browser**
  - Browse and import assets from a repository

- **Report Generation**
  - HTML and XML based data extraction and reporting

- **Lifecycle Integrations**
  - Drag-and-drop association of RequisitePro requirements with models
  - Interface to CM tools

**New “Diagram Navigator” view** provides a diagram filtered view of the models and workspace.

**Diagram links as first-class citizens**

**“In diagram editing” to accelerate modeling.**

**New properties view**

**Inheritance view**
Model-driven development of Java, J2EE, and C++ applications

- Includes all of the functionality in RWD, RAD, and RSM
- UML Language Transforms
  - UML-to-code transforms for EJB, Java, and C++
- Java Structural Analysis
  - Automatic anti-pattern and pattern detection
  - Architectural discovery, analysis, metrics, and stability reporting
- C++ Development Tools
  - C/C++ editors and build management, compiler and debugger integration, and UML code editors
- Includes: Rational ClearCase LT and the RUP configuration for Software Architects

- Automatic generation of “topic” diagrams based on the results of the code analysis
- Patterns and anti-patterns are rendered in the diagram editor. Navigation to detailed code is supported
- Code review pane providing a report of detected issues. Report is inclusive of J2EE detailed code analysis results
- “Details View” providing an overview and avoidance guidance for anti-patterns

IBM Rational Software Architect
Systems Development

- Eclipse based Systems Development Environment
- UML-based, model-driven development, design & construction tool for C/C++, J2SE and CORBA IDL implementation
- Serves as a framework for enabling business partner value-add development
- Includes: Rational ClearCase LT
Embedded and Device Development

- Industry-leading MDA® (Model-Driven Architecture) tool:
  - IBM Rational Rose RealTime
  - Most advanced UML MDA tool

- Model visually
  - To understand complex systems

- Develop at the model level
  - To deliver better applications faster

- Use natural embedded notation and concepts
  - Hierarchical state machines for event-driven object behavior
  - Structures for architectures
  - Active objects to simplify concurrency

- Apply a uniform solution on host and target
  - To simplify cross-platform development
  - To adapt to your target

- Use middleware to simplify distribution

- Hosted on Windows, Unix and Linux
Business Driven Development offerings

Software quality

Benefits
- Ensure reliability, functionality, scalability
- Accelerate test cycles
- Support multiple skill levels
- Share responsibility for quality across the team

Capabilities
- Runtime Analysis
- Unit and performance testing
- Distributed test execution
- Test planning, reporting and analysis

Key Products
- IBM Rational Manual Tester
- IBM Rational Functional Tester
- IBM Rational Performance Tester
- IBM Rational Robot
- IBM Rational PurifyPlus
- IBM Rational Test RealTime
Plan, manage and organize manual testing

- Flexible support for manual test authoring, organization and execution
- Test any software or non-software system
- For business analysts and testers
- Reduces impact of software change and human error on manual testing efforts
- Add organization and reuse to manual test efforts
- Drag-and-drop test step reuse
- Rich editor with multiple customization points
- Assistance for verifying and entering data
- Test import / results export capabilities
- Distributed team support using central test repository

IBM Rational Manual Tester
Verify application functionality

- Comprehensive functional and regression test automation
- Tests Java, VS.NET WinForms, Web, Siebel and terminal-based applications
- For project or department QA teams, testers and GUI developers
- Wizards-based test development
- Ensures proper use case implementation before deployment
- Supports fact-based evaluations of project readiness and application quality
- Choice of 100% pure Java or VB.NET for test script development
- Maximized reuse with intelligent script maintenance
  - Fully versionable test assets
  - Robust object recognition engine

IBM Rational Functional Tester
Analyze application load and performance

- Provides Web, Siebel and SAP application load and performance testing
- For testers and deployment managers
- Validate scalability under variable multi-user loads prior to deployment
- Provides cross-tier transaction breakdown and resource monitoring to pinpoint bottleneck
- Simple, tree-based tests
  - Optional insertion of Java code for advanced customization
- Flexible modeling and emulation of diverse user populations
- Automated identification and variation of dynamic data

IBM Rational Performance Tester
Continuously Ensure Quality: Developing Fast, Reliable Code

- **IBM Rational PurifyPlus:**
  - Automatically pinpoints hard-to-find bugs
  - Highlights performance bottlenecks
  - Keeps you from shipping untested code

- Multi-platform and multi-language tool for Unix, Windows, Linux, Java, .NET, VB6, C/C++, and more

- IBM Rational PurifyPlus combines three industry leaders into one box:
  - IBM Rational Purify
  - IBM Rational Quantify
  - IBM Rational PureCoverage
Embedded Device Testing

- A unique cross-platform solution for component testing and runtime analysis
  - Automated functional testing at all levels of complexity to ensure your software reliability
  - Memory and performance profiling, code coverage measurement and runtime tracing abilities to diagnose run-time issues
  - Dynamic links between code, test assets and visual models to make testing an integral part of the development cycle
  - Low-overhead technology for enabling target-independent tests and runtime analysis
Business Driven Development offerings

*Change and configuration management*

**Benefits**
- Quickly respond to change
- Develop anytime, anywhere
- Ensure predictable results
- Promote and support reuse

**Capabilities**
- Change and asset management
- Build and release management
- Flexible workflow support
- Traceability across the lifecycle

**Key Products**
- IBM Rational ClearCase
- IBM Rational ClearQuest
- IBM Rational Team Unifying Platform
- IBM z/OS SCLM Suite
Managing change

Business challenges

- This merger will make us more competitive
- Three different customer systems and more on the way
- Our customer’s business model is changing
- No one can tell me when we’ll finish rolling out
- How do we meet these new regulations
- It’s too hard to get the information we need
- We have to get more with less
Managing change

Project challenges

Did requirement 462 make it into this release?

Analyst

Of course I didn’t forget a file...

Developers

New GUI button

Add promotion calculation

Bug 527

New platform

Bug 179

New web design

Bug 201

Bug 849

New customer transaction

Project Manager

Where’s the bottleneck?

Integrator

Why did the build break?

Build 3

Build 2

Build 1

Testers

Are the requirements I need to test in this build?

Bug 98

Add promotion calculation

Bug 179

New web design

Bug 201

Bug 849

New customer transaction
Activity-based change management

*Ensure predictable results*

- Simplifies key SCM functions and workflows
- Easy to adopt
- Optimized for team productivity
- Based on hundreds of successful CM implementations

**Unified Change Management**

**Manage Activities**
- To do lists
- Automated workflow

**Manage Assets**
- Versioning: code, models, XML, HTML
- Parallel development

**Manages High-level Objects**
- Components
- Streams
- Baselines
- Activities

*IBM Rational ClearCase and IBM Rational ClearQuest*
Manage change in *Your* environment

Rational ClearCase and Rational ClearQuest Menu and Toolbar

Context sensitive menus

IBM Rational ClearCase and IBM Rational ClearQuest
Secure Eclipse & Web 2.0 clients

Globally distributed projects

Real-time collaboration and project information “in context”

Adaptive process enactment

Dynamic artifact relationships

Powered by Jazz in the context of Rational Products

Method Composer

Asset Manager

Portfolio Manager

Performance Tester

ClearQuest

ClearCase

New Products for Agile Development

* Incubators

* Beta 2

Rational software
Introducing the First Wave of New Rational Jazz Offerings

**Collaborative Application Lifecycle Management**

**Requirements Composer (beta)**
*Business Expert Collaboration*
Elicit, capture, elaborate, discuss and review requirements using a variety of techniques & notations

**Quality Manager (beta)**
*Business Driven Quality*
Coordinate and manage quality assurance plans, processes and resources across the lifecycle

**Coming soon…**
- Enterprise reporting
- Collaborative project management
- Process design & enactment
- Business Partner offerings

**TEAM SERVER**
*In-context collaboration, real-time project health, event notification, process enactment & enforcement, global search & query, security, role-based access, automated traceability*

**Team Concert**
*Software Innovation Through Real-time Project Team Collaboration*

**Work Item Management**
Automated and flexible software change management improving project control and visibility

**Configuration Management**
Source code control, traceability and versioning leveraging dynamic workspaces & parallel development

**Build Management**
Automates build planning, project construction, build of materials and release processes

**Enhancements to ClearQuest, Build Forge and ClearCase**
An evolution for new and existing customers

The Evolution of the IBM Rational Software Delivery Platform

Existing Offerings
- Rational RequisitePro
- Rational ClearQuest
- Rational Build Forge
- Rational ClearCase
- Other Rational & Non-Rational Offerings

Evolution to Jazz Technology Platform

New Offerings
- Reporting
- Future Products

Built on the Jazz Technology Platform

FUTURE IBM RATIONAL SOFTWARE DELIVERY PLATFORM
Introducing IBM Rational Team Concert

Software innovation through collaboration

- Enables “real-time, in-context” collaboration for distributed project teams – making software development more automated, transparent and predictive

- Integrates source control, work item, reporting and build capabilities which “think and work in unison”

- Provides real-time project health information and transparency of status through automated data gathering

- Supports out-of-the-box and custom defined processes which break down functional & organizational barriers

- Allows choice of client tools and extends the value of ClearQuest & ClearCase in enterprise deployments

† Collaborate in context
† Right-size governance
† Day one productivity
RTC Value to the Practitioner

**SCM**
- Flow Browser Shows Developer to Team Flow
- Integrated Stream Management
- Component Level Baselines
- Server-based Sandboxes
- Identifies Component in Streams and Available Baselines
- ClearCase Connector

**Work Items**
- Defects, Enhancements and Conversations
- Query Results View and Share Queries with team or member
- Support for Approvals and Discussions
- ClearQuest Connector
- Query Editor Interface

**Build**
- Work Item and Change Set Traceability
- Local or Remote Build Servers
- Supports Ant and Command line Tools
- Integration with Build Forge
- Build Definitions for Team and Private Builds

**Jazz Team Server**

**Rational Team Concert**
Statement of direction: Jazz-based product evolution (Internal Discussion Only)

✓ Rational Team Concert Standard, Express, Express-C
  ✓ A standalone development environment optimized for small and mid-sized teams
  ✓ All the collaborative capabilities of the Jazz platform – plus work item, SCM and build management
  ✓ Integrates with Rational Build Forge for enterprise build
  ✓ Interoperates with Rational ClearCase and ClearQuest
  ✓ Subversion connector available

✓ Introducing Rational Team Concert Enterprise
  ✓ A standalone development environment for any size team
  ✓ All the collaborative capabilities of the Jazz platform – plus full future versions of Rational ClearCase, ClearQuest and BuildForge
  ✓ Optional connectors provide seamless interoperation with enterprise repositories

✓ Rational Software Delivery Platform 2.0
  ✓ Comprehensive collaborative application lifecycle management
  ✓ Frictionless software delivery spanning
    ✓ Change and release management
    ✓ Requirements definition
    ✓ Test management
    ✓ Enterprise reporting
    ✓ More
  ✓ Open, extensible architecture expands tooling options

All capabilities in lower version is available in higher version.

*Statements on future direction subject to change
RTC Value to the Business

- Clearly understand Team Goals
- Transparency and control via customizable dashboards
- Real time Status
- Risks, Issues, Challenges surfaced at both the Team and Project Level

Development

- Endgame Has Started
- Jazz Development Description
- Jazz Development Event Log

Rack
date
RTC Value to the Business

Trending by Project or by Individual Team

Current Milestone status

Team Member Details
Business Driven Development offerings

Process and portfolio management

GOVERNANCE DASHBOARD

Process & portfolio management  Requirements & analysis  Design & construction

Business driven process

Change & configuration management  Software quality

Benefits
- Align IT efforts with business priorities
- Accurately scope projects
- Mitigate risks early
- Equip the team to work effectively together

Capabilities
- View and monitor portfolio dashboard
- Plan and estimate projects
- Manage teams with proven best practices
- Measure progress based on accurate data

Key Products
- IBM Rational Portfolio Manager
- IBM Rational Team Unifying Platform
- IBM Rational Method Composer
- IBM Rational Suite
Project portfolio management

... aligns projects and resources with business priorities. It is about planning and managing projects individually and as a comprehensive portfolio of assets which must meet enterprise objectives.

- **Business & IT Leadership**
  - Prioritize enterprise investments, balance efforts per risk & return

- **IT & Development Teams**
  - Collaborate, communicate, & execute project efforts

- **Project Management**
  - Plan, scope, schedule, monitor, measure & report

**Business Alignment and Control**
A role-based project portfolio management solution

- Achieve the Business Vision
- Deliver Business Value
- Plan a Balanced Approach
- Optimize Your Staffing Profile
- Regulate Your Financial Health
- React to Changing Needs
- Track the Expected Results
IBM Rational Portfolio Manager

Aligning priorities, projects, and people

- Balance portfolios, prioritize investments
- Align resources with strategic enterprise objectives
- Make timely, informed decisions based on accurate project data
- Ensure best practices are repeated for all management processes
- Input and track time and expense
- Leverage reusable process templates for collaboration and communication
- Generate accurate, objective status data

IT & Executive Leadership

Project & Program Managers

Practitioners

Development Environment

IBM Rational Portfolio Manager
Portfolio Manager & Rational Team Unifying Platform

Align business and technology

**Portfolio Manager**
- Analyze portfolios
- Track financials
- Manage resources
- Plan and schedule work
- Perform reviews
- Share project documents

**Team Unifying Platform**
- Status tracking
  - Scope, risks, exceptions
- Real-time reporting
- Change management
- Process optimization
- Requirements and analysis
- Test management
- Workflow management
- Lifecycle traceability
- Asset management
- Metrics

IBM Rational Portfolio Manager
IBM Rational Team Unifying Platform
Team Unifying Platform + Portfolio Manager

- Keep projects on track
  - Appropriate project prioritization
  - Accurate project status – financial and technical
  - Informed resource allocation

- Execute projects efficiently
  - Apply, customize and share project execution methods
  - Leverage proven development methodologies
  - Communicate artifacts, deliverables and change

- Engage all stakeholders
  - Manage software development activities and details with practitioner focused solutions
  - Engage senior level managers with insight and consistency across IT projects
  - Empower Project Manager to align project and technical status
IBM’s next generation process solution with tooling, process libraries, and unified method architecture

- New commercial process product with tooling and content that supports business-driven development
- Supports a broad range of project types that map to customers’ current high priority IT initiatives
- Aligns IT processes with Project Portfolio Management to addresses enterprise needs
- New easy-to-use form-based tools for authoring, configuring, and viewing process guidance
- Provides consistent results across all projects through proven best practices integrated with practitioner tools

Reusable process fragments captured as Capability Patterns (CP)

Leverage out-of-the-box delivery processes for COTS, J2EE, Systems Engineering, SOA, etc.

Drag & drop CPs, activities or tasks to augment the project plan template

View the workbreak down structure, what roles are required, or what artifacts are input / output

IBM Rational Method Composer
Agenda

- Business trends that impact software and systems delivery
  - Challenges and opportunities
- Evolving software and systems delivery
  - The Business Driven Development process
- Business Driven Development Offerings
- Summary and Questions
Leading in Software Development according to IDC

#1 Analysis, Modeling & Design
Twice the market share of nearest competitor  
IDC, July 2004*

#1 Software Configuration Management
Year over Year Growth 3 times nearest competitor 
IDC, July 2005

#1 Application Lifecycle Management
One quarter World Wide Market Share  
IDC, July 2005

* 2005 report not yet published
Leading in Software Development according to Gartner

#1 Application Development Software, Worldwide, 2004
Twice the share of nearest competitor in new license revenue
Gartner, Sept 2005

#2 Requirements Management
Double-digit revenue growth new license revenue 2003/2004
Gartner, Sept 2005
Leading in Software Development according to VDC

#1  Embedded System Test Automation Tools  
Twice the market share of nearest competitor  
VDC, Sept 2005

#1  Embedded Software Modeling Tools  
Twice the market share of nearest competitor  
VDC, Sept 2005

#2  Embedded Design Automation Tools  
Double-digit revenue growth 2003/2004  
VDC, Sept 2005
IBM: Driving industry standards
Driving convergence for developers

Business Process Modeling Notation (BPMN)
WS-I Basic 1.1
Common Base Event (WS-DM)
Servlet 2.4 (JSR 154)
Java™ APIs for XML RPC (JSR 101)
JSP 2.0 (JSR 152)
Portlets (JSR 168)
Service Data Objects (SDO 1.0)

Unified Modeling Language (UML 2.0)
Reusable Asset Specification (RAS 1.0)
Java Server Faces – JSR 127 (JSF 1.1)
Solution Install Schema (W3C)
Test and Performance Tooling Platform
The IBM Software Development Platform

Client benefits

- **Volkswagen AG**: 20% productivity increase
- **TTI Telecom**: Improved time-to-market by 50%
  - Estimated savings of $2 million per year
- **Unisys**: 25-40% improvement in cycle time
  - 75-100% improvement in productivity
  - 25-60% cost savings
- **Acuity**: 15% higher profitability
  - 46% higher employee productivity
- **Viveo ToolObject**: 60% reduction in development cycles
- **Assurant Health**: Projects delivered on-time
  - 30% under budget
- **Ludwig Gortz**: 25% increase in employee satisfaction
- **Thomson Financial**: Pilot project costs reduced 50%
The IBM Rational Software Development Platform

Summary

The most complete, open, modular, and proven development solution

The only solution that enables business-driven development by unifying business, operations and development teams

The only solution with a comprehensive strategy for improving application quality and availability post-deployment
Thank You