



IBM Software Group


IBM Rational

Requirements Management mit RequisitePro



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Agenda

- Rational in der IBM Software Group
- Der Rational Unified Process als Basis für die Projektarbeit
- Requirements Management mit Rational RequisitePro



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Rational in der IBM Software Group




<p>Software Development</p> <ul style="list-style-type: none"> ▪ Configurable Process ▪ Requirements & Analysis ▪ Visual Modeling & Development ▪ Automated Testing ▪ Project Management ▪ Software Configuration Management 	<p>Transaction Management</p> <ul style="list-style-type: none"> ▪ Foundation & Tools – including WebSphere Studio ▪ Business Portals ▪ Business Integration 	<p>Data Management</p>	<p>Systems Management</p>	<p>Collaboration</p>
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Rational Software


- 1981 gegründet
von Mike Devlin und Paul Levi
- Definition der UML
Unified **M**odeling **L**anguage
- Definition eines Vorgehensmodells
Rational **U**nified **P**rocess



Grady Booch




Dr. Jim Rumbaugh




Dr. Ivar Jacobson


Dr. Philippe Kruchten

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Die „Six Best Practices“

Steigerung des Erfolges in der Softwareentwicklung

Unterstützung durch die Rational Suite EnterpriseStudio

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Wasserfallmodell

Wasserfall Prozeß

- Risiken werden zu spät angegangen
- Projektfortschritt ist schwierig zu messen
- Integration und Test wird unnötig aufgeschoben
- Keine frühe Auslieferung
- Führt häufig zu ungeplanten Iterationen

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Best Practices: Iterative Entwicklung

- Geänderte Anforderungen können beachtet werden
- Bereiche mit hohem Risiko werden in frühen Iterationen angegangen
- Am Ende jeder Iteration steht ein ausführbares Release

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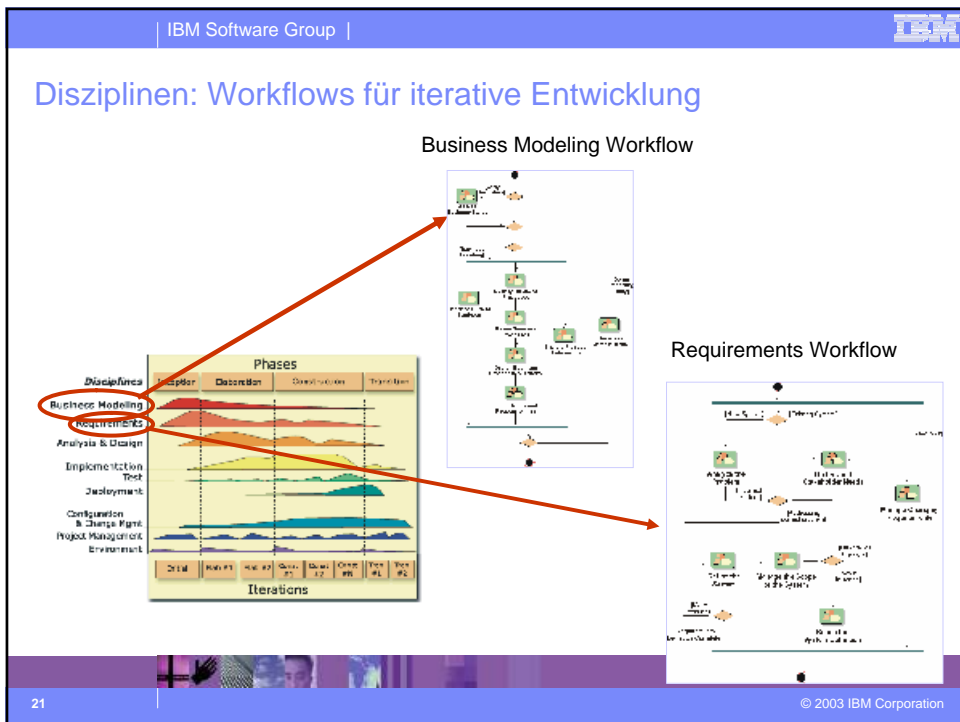
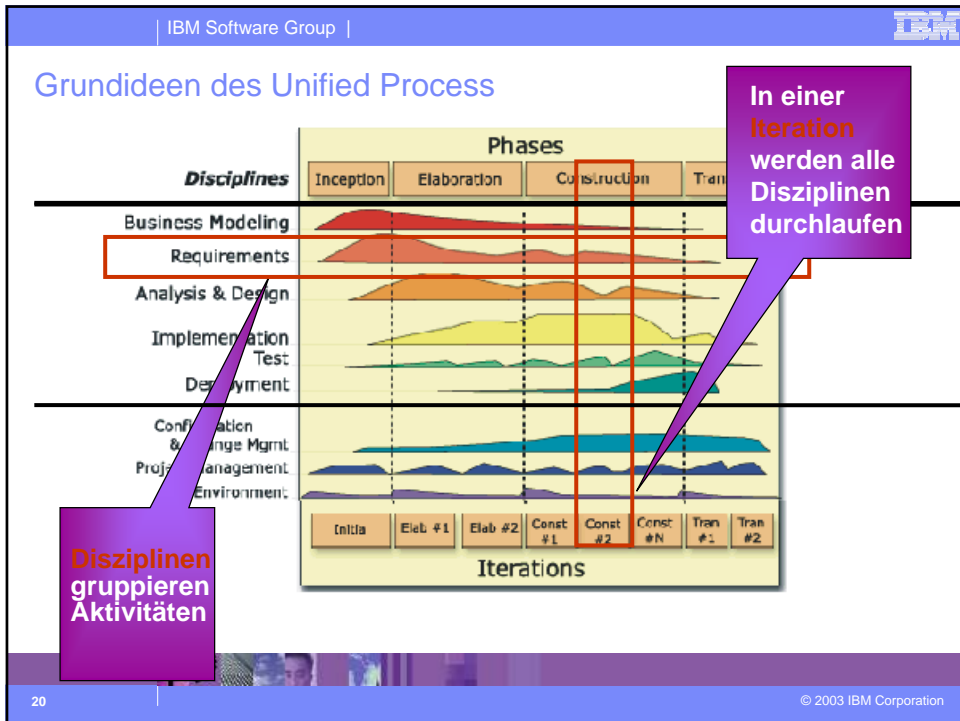
Iterationen zur Risikominimierung

Klassischer Wasserfall Prozeß:

Vom klassischen Wasserfall zu den kleinen iterativen Wasserfällen:

Zeit

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Rollen führen Aktivitäten aus und erzeugen Artefakte

Example:
Requirements-
Workflow Detail:
Define the System

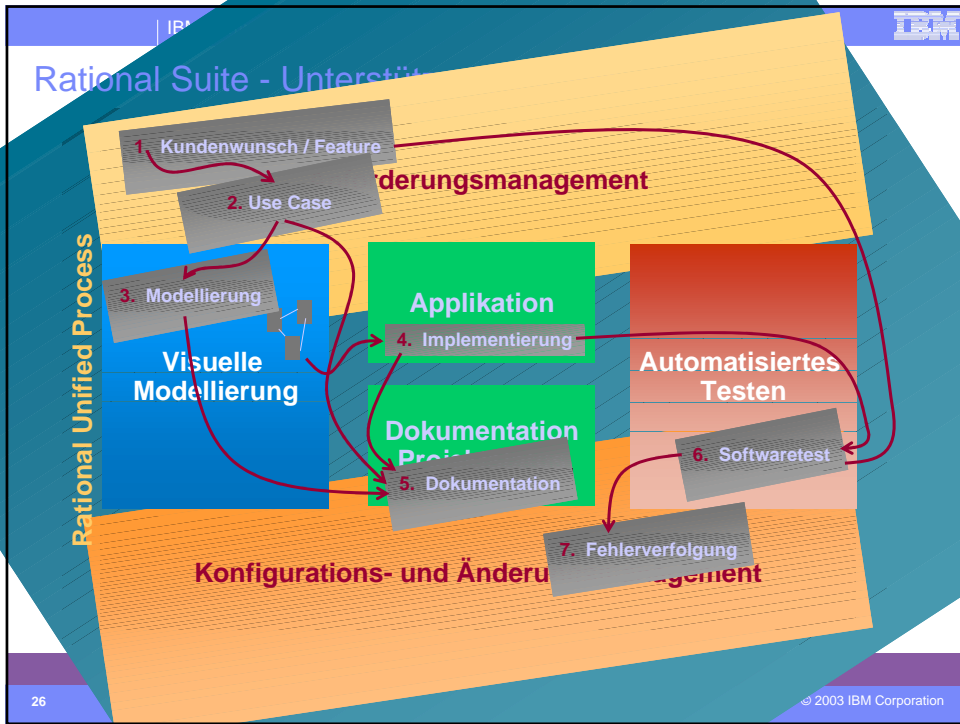
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Anforderungsmanagement – Requisite Pro

Zentrale Verwaltung und Administration

The screenshot shows the Rational Requisite Pro interface. On the left is a project tree for 'ClassicCD Web Shop'. The main window displays a list of requirements with columns for 'Requirement', 'Priority', and 'Status'. A red box highlights the title 'Zentrale Verwaltung und Administration'.

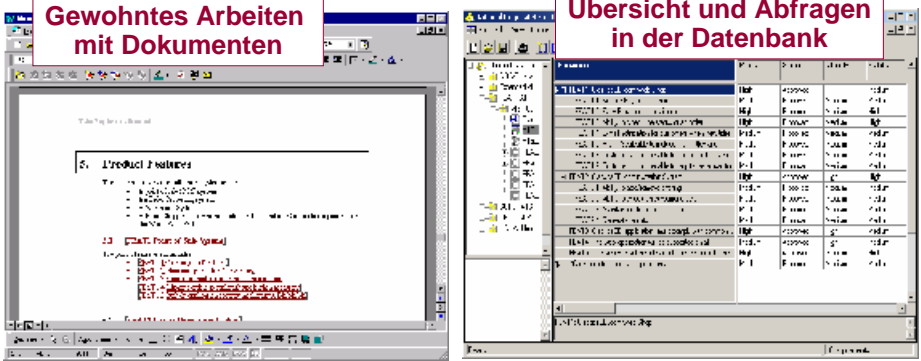
Requirement	Priority	Status
REQ1: ClassicCD.com Web Shop	High	Approved
REQ 1.1: Secure Payment method	Medium	Rejected
REQ 1.2: Easy Ordering for external sites	High	Rejected
REQ 1.3: Ability to check the status of an order	High	Rejected
REQ 1.4: Email Notification for customers when their order	Medium	Rejected
REQ 1.5: High Sea able to replace more files and...	Medium	Rejected
REQ 1.6: Customer should be able to customize the web...	Medium	Rejected
REQ 1.7: Customer should be able to register as a user for...	Medium	Rejected
REQ2: ClassicCD Administration System	High	Approved
REQ 2.1: Ability to address orders of high...	Medium	Rejected
REQ 2.2: Ability to check on customer orders	Medium	Rejected
REQ 2.3: Maintain customer information	Medium	Rejected
REQ 2.4: Generate reports	Medium	Rejected
REQ3: ClassicCD applications must comply with common...	High	Approved
REQ4: The web application will be supported on all...	Medium	Rejected
REQ5: The website will include an interactive guide to the...	High	Approved
REQ6: Site to create a requirement	Medium	Rejected

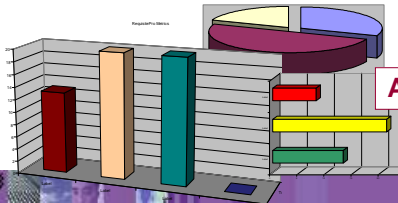
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Anforderungsmanagement – Requisite Pro

Gewohntes Arbeiten mit Dokumenten


Übersicht und Abfragen in der Datenbank



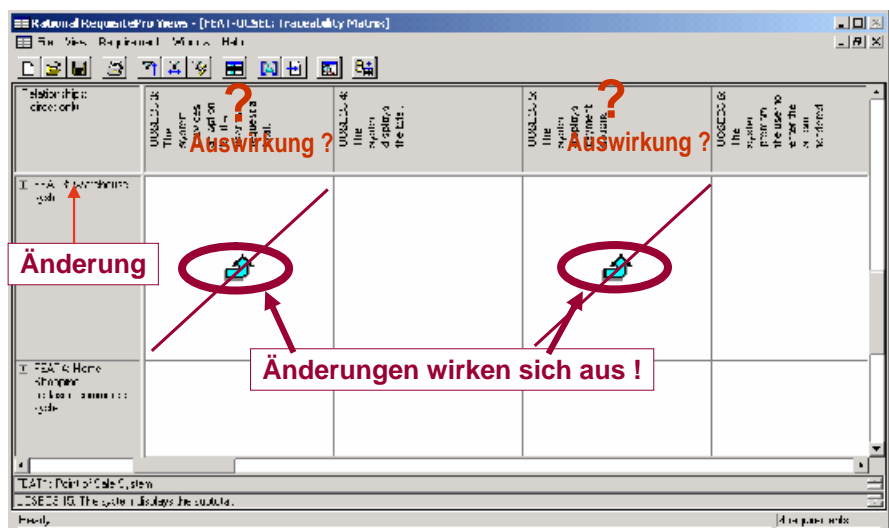


Auswertungen

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Anforderungsmanagement – Traceability



?
Auswirkung?

?
Auswirkung?

Änderung

Änderungen wirken sich aus!

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Integriertes Use-Case-Management

The screenshot shows the Rational software interface for Use Case Management. A menu is open, listing various actions like 'Open Rose Use Case', 'Associate Use Case to Use Case', and 'Go to Use Case'. The main workspace displays a Use Case diagram with nodes like 'Arrange Shipment' and 'Inventory System'. A diagram below the screenshot shows two Use Case nodes (orange and red) connected by a double-headed arrow labeled 'Attribute'.


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Integriertes Use-Case-Management


The screenshot shows the Rational software interface for Use Case Management. A diagram on the left shows a Use Case diagram with a stick figure actor and several use case nodes. A text editor on the right displays the content of a use case scenario, including a 'Flow of Events' section with a 'Basic Flow' subsection. A diagram below the screenshot shows two Use Case nodes (orange and red) connected by a double-headed arrow labeled 'Attribute'.

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Requirements & Analysis 

- ✓ Requirements & Use Cases
- ✓ Geschäftsprozess-Modellierung
- ✓ Daten-Modellierung

Software Entwicklung 

IDE

- ✓ Visual Modeling
- ✓ Web Component Modeling
- ✓ Unit Testing

Test / QS 

- ✓ Funktionalität
- ✓ Zuverlässigkeit
- ✓ Leistung

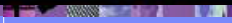
Collaborative Projekt-Management


- ✓ Gemeinsamer Prozess
- ✓ Dokumenten-Erzeugung
- ✓ Metriken


Team-Infrastruktur


- ✓ Requirements Management
- ✓ Test-Management
- ✓ Konfigurations-Management
- ✓ Content-Management*

TEAM UNIFYING PLATFORM

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