



IBM Software Group

# IBM Rational Method Composer An Overview

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**Rational.** software

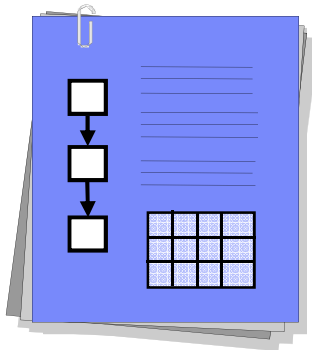


## Rational Method Composer (RMC) is a Meta Model Workflow definition Tool

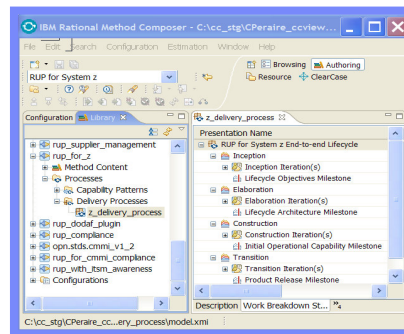
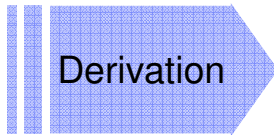
- With RMC is possible to define (Software Development) processes and to maintain them
- RMC can generate the process content in HTML format in order to publish it
- RMC can be integrated with software development environment in order to advise developers and also in project management tools in order to make project planning consistent
- RMC provides the possibility to reuse the best practices
- RMC contains very detailed descriptions of process activities, roles and work products (deliverables).



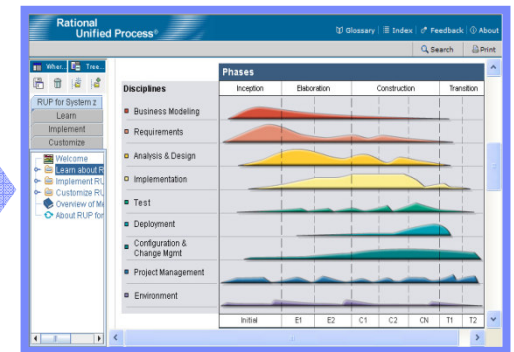
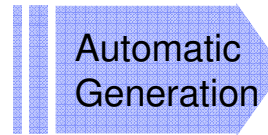
# Process Development with Method Composer



**Process Sketch**  
*Draft of the method*



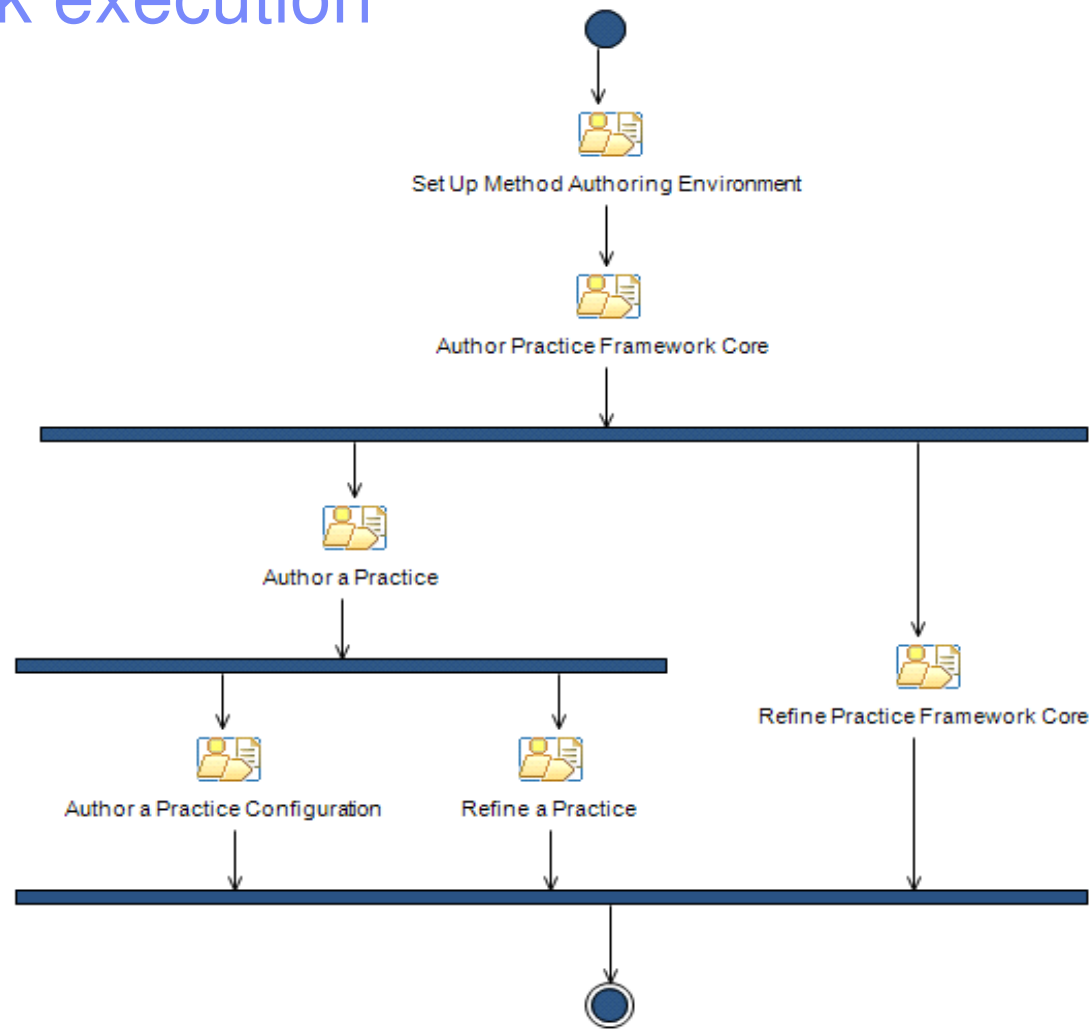
**(RMC) Process Definition**  
*Formal definition of the method*



**Published Method**  
*Method web site*



# Workflow in form of Activity diagram defines the order of the Task execution



# Rational Method Composer Value Proposition

- **The Project Execution Problem**
  - ▶ *“We have problems delivering projects on time, on budget, and meeting all high priority requirements. There is no consistency or predictability.”*
- **The Audit Problem**
  - ▶ *“It’s a nightmare every time we’re audited. Demonstrating our process to the auditor is laborious, time-consuming and painful.”*
- **The Process Improvement Problem**
  - ▶ *“We know our process isn’t working. We know we need to change it. We’re just not sure what is the right process, how to effect that change and get everyone to follow it.”*
- **The Outsourcing / Distributed Development Problem**
  - ▶ *“Budget was just cut 40% and we need to outsource. How do we communicate our process to the outsource vendor? If we don’t, they’re going to charge a premium.”*
- **The Process Deployment Problem**
  - ▶ *“We have a great process, but it is too expensive to maintain, and we are not effectively deploying it.”*



## RMC and the Project Execution Problem



Project Manager  
CIO/CTO

- Apply proven practices for consistency and predictability
  - ▶ Consistent terminology, flexible resourcing, improved reuse / sharing, improved oversight
  - ▶ Provide a clear delineation of who does what, when
  - ▶ Covers a broad variety of project types and organizations
- Effectively deploy practices
  - ▶ Provide assistance on learning new tools and technology
  - ▶ Supported by effective learning, consulting, and tight tool integration

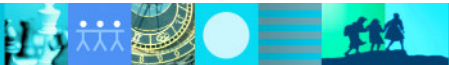
### Specific RMC/RUP Capabilities

New!

- ▶ Industries broadest collection of practices, with a dozen out-of-the-box processes for different project types
  - Harvesting what has driven success in thousands of projects
  - Clearly defines who does what, and how

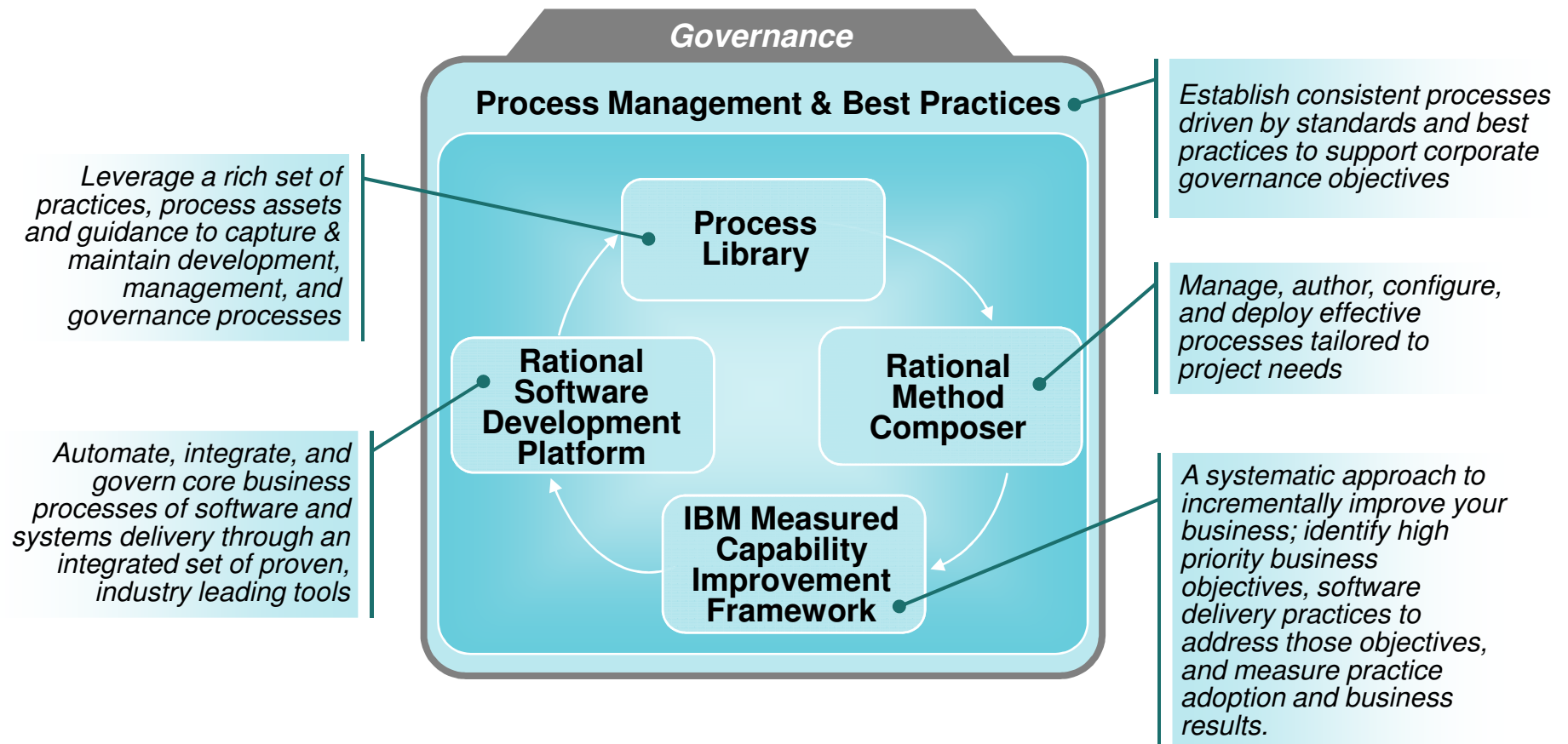
New!

- ▶ Tight integration with development platform
- ▶ Supported by comprehensive learning curriculum
- ▶ Supported by a broad set of services offerings from partners and IBM



# IBM Process Management

**Create, customize, publish, enact and measure software & systems delivery, practices and processes according to project needs**



# Rational Process Library

Improved!

***Broad variety of method plug-ins included in Rational Method Composer***

## Enterprise plug-ins

- IBM Rational Unified Process, or RUP
- IBM Rational Method for Portfolio Management (for Initiatives)
- IBM Rational Method for Program Mobilization
- RUP for Asset-Based Development
- IBM Tivoli Unified Process (ITUP)
- RUP with ITSM/ITUP Connection

## Solution-specific plug-ins

- SOA:
  - ▶ RUP for Service-Oriented Modeling and Architecture
- Governance:
  - ▶ SOA Governance
  - ▶ Asset-Based Governance
  - ▶ RUP for Practical Software & Systems Measurement (PSM)
- Compliance:
  - ▶ RUP for Compliance Management (beta)
  - ▶ RUP with Global Development and Delivery (GDD)

## Project-specific plug-ins

- RUP for COTS Package Delivery
- RUP for System z
- RUP for Maintenance Projects
- RUP for Legacy Evolution
- RUP for Systems Engineering

Now a library of  
over **100 content  
packages!**

## Standard-specific plug-ins

- RUP for Department of Defense Architecture Framework (DoDAF)
- RUP with CMMi Compliance Support

## Practice-specific plug-ins

- RUP for User Experience Modeling

## Technology/tool-specific plug-ins

- RUP for Microsoft .NET
- RUP for J2EE
- Rational Application Development
- Rational Software Architect
- RUP Plug-in for WebSphere Business Modeler

***A collection of out-of-the-box method content and processes that you can customize to address a diverse set of enterprise and project needs and development styles***



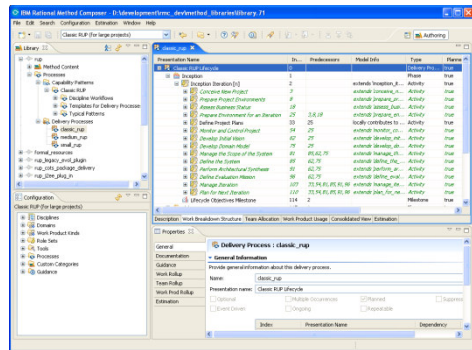
# RMC and the Rational Software Delivery Platform

- Generate project plans from your process library
- Integrates with RPM and 3<sup>rd</sup> party tools

Process-Driven Planning

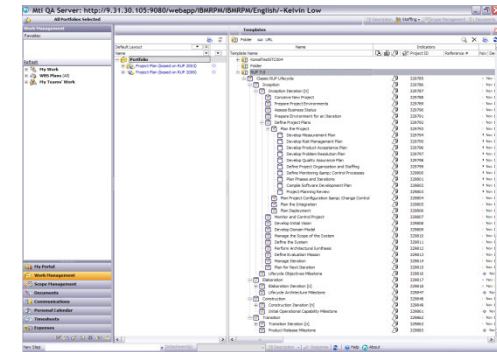
Improved!

Process-Guided Tool Usage

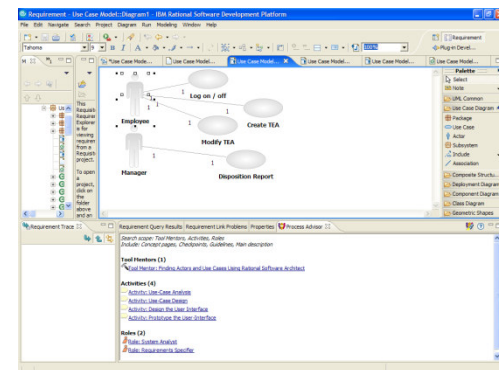


Rational Method Composer

- Process Advisor - relevant guidance for what you're doing
- Tool Mentors – guidance for how to implement the process with tools at hand



Microsoft Project Manager



Rational Software Delivery Platform

## RMC and the Audit Problem



Project Manager  
CIO/CTO

- Compliance is about 3 things:
  - ▶ **Say what you do** => Document your process with RMC, start with one of our dozen out-of-the-box processes, and tailor to fit your desired working procedure
  - ▶ **Do what you say** => Easy-to-navigate process guidance tightly integrated with tools, and supported by broad curriculum
  - ▶ **Prove it!** => Aided by Rational Software Development Platform and RUP for Compliance Management

### Specific RMC/RUP Capabilities

- ▶ RUP for Compliance Management – How to more effectively pass audits
- New!** ▶ RUP for SEI CMMI – Describes what parts of RUP addresses what KPAs for SEI CMMI level 2
- New!** ▶ IBM Tivoli Unified Process (ITUP) and Rational Unified Process (RUP) connect development and IT operation processes – Good ITIL story
- ▶ RMC Tailoring: Tailor the process for your project to 'say what you do'
- New!** ▶ RMC Reporting – Allows you to provide documentation to auditors on what they should audit you on



## RMC and the Process Improvement Problem

- Problems solved by RMC
  - ▶ We do not know how to transition to SOA?
  - ▶ SOA is promising, but how do I effectively govern my services assets?
  - ▶ We hear agile is good, but how can we incrementally adopt it?
  - ▶ How do I get visibility into all my agile projects?
  - ▶ How do I effectively adopt asset-based development and RAM?



**Project Manager**  
CIO/CTO



### Specific RMC/RUP Capabilities

- ▶ SOA Governance and Management Method (SGMM) for introducing and governing SOA initiatives
- ▶ RUP for Service-Oriented Modeling and Architecture (SOMA)
- ▶ Lightweight versions of RUP adopted in agile fashion (RUP for Small Project, RUP for Maintenance, etc.)
- New!** ▶ RUP for Asset Based Development (ABD) for IBM Rational Asset Manager (RAM) for producing, consuming & managing reusable assets
- New!** ▶ Asset Governance, to manage and control key investments



## RMC and Outsourcing / Distributed Development

- Problems solved by RMC
  - ▶ We do not have a common way of working!
  - ▶ How do I know what is done by whom?
  - ▶ How do we effectively transfer information between sites?
  - ▶ How do I effectively use tools for distributed development?



**Project Manager**  
CIO/CTO



### Specific RMC/RUP Capabilities

- New!** ▶ RUP for Global Development & Delivery (GDD) for new development
- New!** ▶ RUP for Global Development & Delivery (GDD) for maintenance projects
  - ▶ Guidance on effective usage of IBM Software Development Platform
- New!** ▶ RMC supports distributed process workspaces enabling local process management as well as corporate level process reuse



## RMC and the Processes Deployment Problem

- Problems solved by RMC
  - ▶ We have a good process, but too few are using it!
  - ▶ We have too many processes, we need to consolidate them
  - ▶ We have good processes, but we want to continuously modernize them



**Project Manager  
CIO/CTO**



### Specific RMC/RUP Capabilities

- ▶ RMC is a great tool for capturing, configuring, and deploying a process
- New!**
  - Greatly improved look & feel of published processes, incl. Web server publishing
- New!**
  - Simplified UI for project managers for simple customizations of process
    - Integrations with project mgmt and practitioner tools
- ▶ Rational Process Library
- New!**
  - Leverage our process assets to strengthen your own process.
  - Leverage downloadable process plug-ins from a broad eco-system

