

Innovate2011

The Rational Software Conference

11th and 12th of October

Let's **build** a smarter planet.



ascendant
TECHNOLOGY

Accelerated Adoption with Ascendant Technology

Phillip Leaper
RAF Overview



Rational Automation Framework (RAF)

Customizable Framework for the WebSphere Family of products that delivers...

- Automated Configuration change management
 - Application deployment automation
 - WebSphere product installation & patching automation
- The Framework strengths are...



Accuracy

“Data Driven” - RAF maintains normalized configuration data

Reliability

Apply the right data to the right WebSphere environment

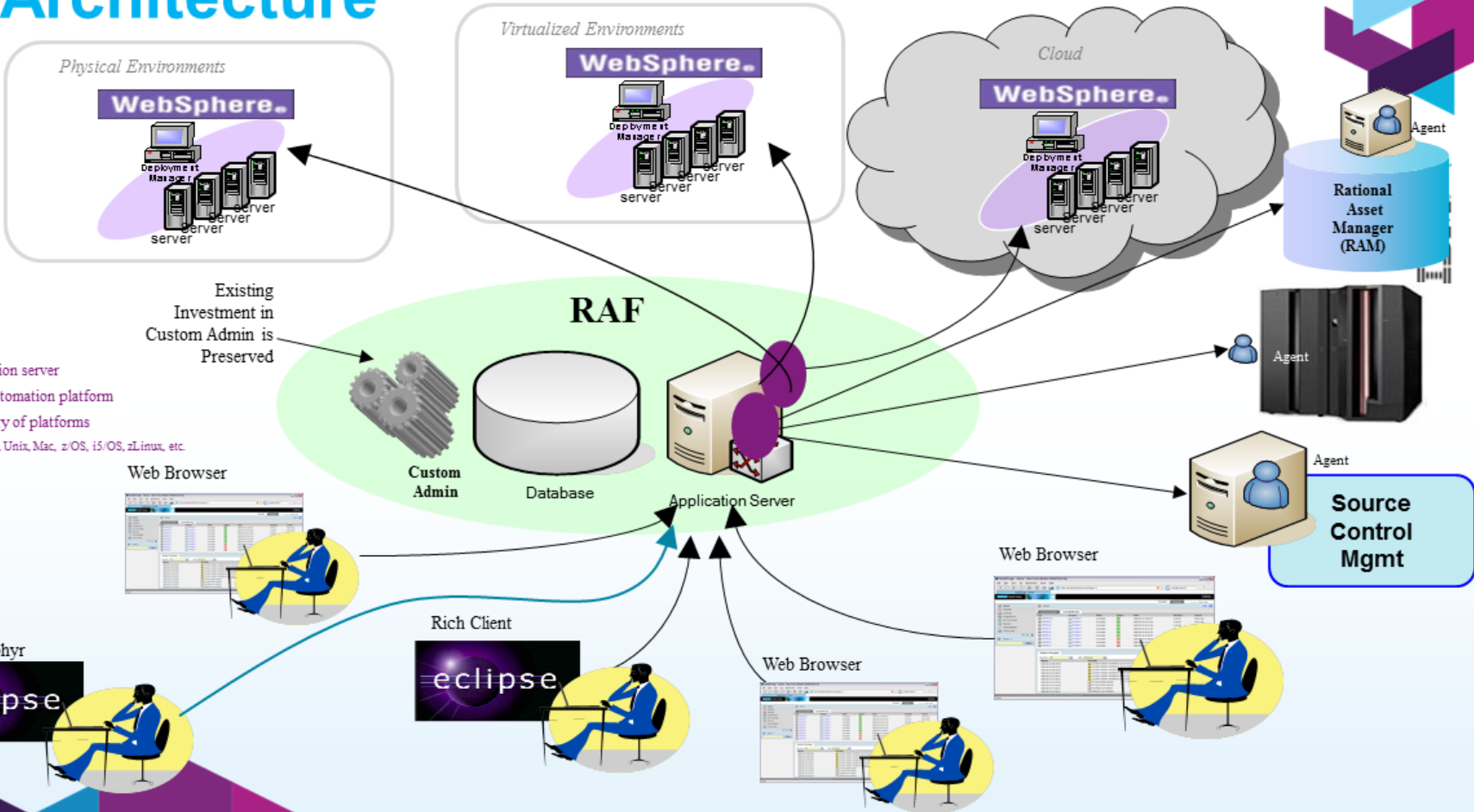
Consistency

Apply data in repeatable manner to WebSphere environments

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RAF Architecture



- Centralized automation server
- Proven enterprise automation platform
- Supports huge variety of platforms
 - Windows, Linux, Unix, Mac, z/OS, i5/OS, zLinux, etc.

RAF Automation Targets



	AIX	HP-UX	Linux	Solaris	Windows	zLinux	z/OS
IBM HTTP Server Version 6.0, 6.1, 7.0	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Configure Deploy
WebSphere Application Server Version 6.0, 6.1, 7.0	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Configure Deploy
WebSphere Application Server ND Version 6.0, 6.1, 7.0	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Configure Deploy
WebSphere Portal Version 6.0, 6.1 6.1.5	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Configure Deploy
WebSphere Enterprise Service Bus Version 6.2	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	
WebSphere Process Server Version 6.2	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	
WebSphere Service Registry and Repository Version 6.2, 6.3	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	
WebSphere Virtual Enterprise Version 6.1	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	Install Configure Deploy	



RAF New GUI



The screenshot shows the 'ABC Resources Editor' interface. The left pane displays a hierarchical tree of resources. The main area is the configuration editor, which has tabs for 'General', 'Advanced', and 'Performance'. The 'General' tab is active, showing fields for 'Name', 'Description', and 'Location'. The right pane shows a list of resources with columns for 'Name', 'Description', and 'Location'.

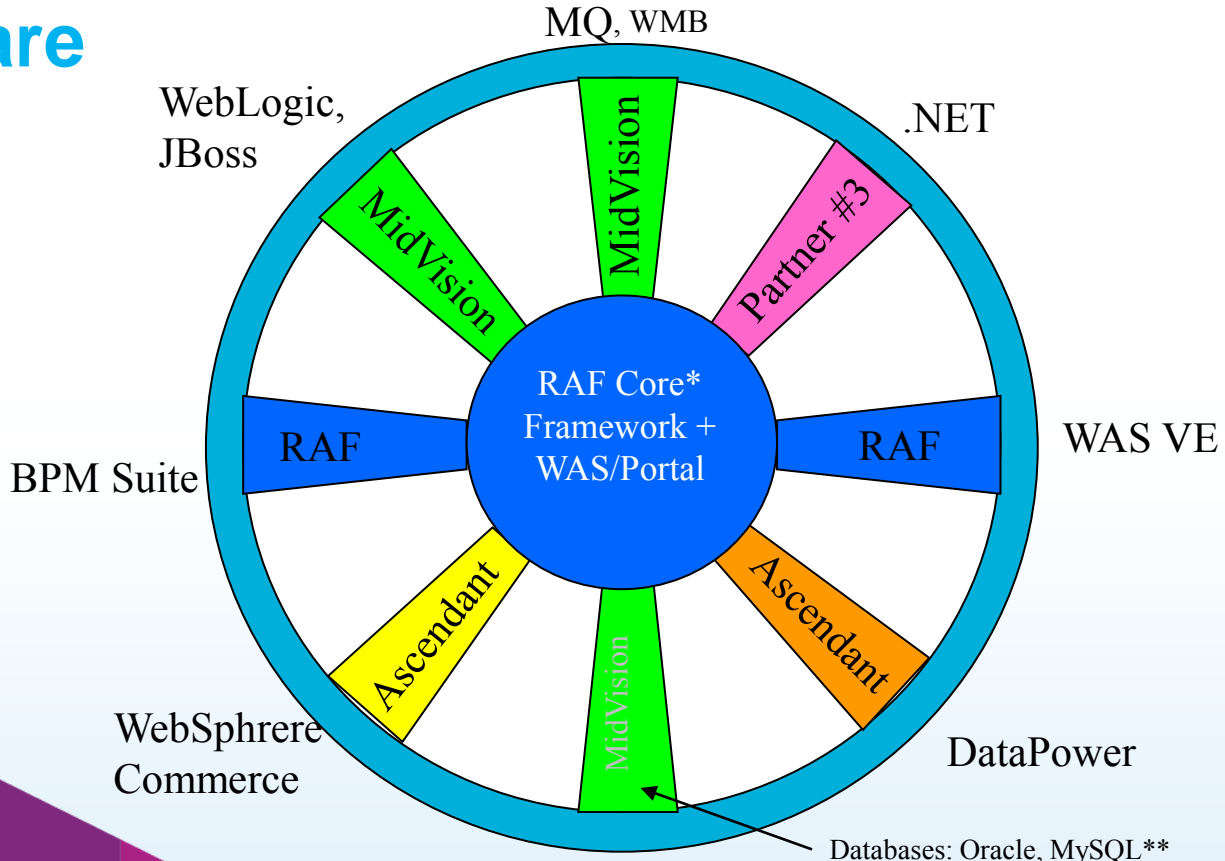
This screenshot shows a detailed view of a resource configuration. The main area is a large text editor displaying configuration details for a resource. The right pane shows a list of resources with columns for 'Name', 'Description', and 'Location'.

The screenshot shows the 'Plan Design' window. The main area is a large text editor displaying configuration details for a resource. The right pane shows a list of resources with columns for 'Name', 'Description', and 'Location'.

This screenshot shows the 'Job Results' window. The main area is a large text editor displaying configuration details for a resource. The right pane shows a list of resources with columns for 'Name', 'Description', and 'Location'.

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Leveraging Partners for Full Spectrum of Middleware



** Possible future



RAF Ascendant Extension

- WebSphere Commerce
- Datapower
- Db2
- ITCAM
- TAM
- Lotus Connections
- Lotus Forms
- WebSphere Portal 7
- WebSphere Process Server 7
- WebSphere Application Server 5.1
- WebSphere Business Monitor 6.2, 7.0



Telenor - Migration

- Upgrade of WebSphere 5.1 to WebSphere Virtual Enterprise 7 / WebSphere 6
- Could not be done manually (resource cost)
- 150 Applications, 3 environments (Production has twice the number of nodes)
- 2 static clusters became 24 dynamic clusters

Increased Productivity – It would not have been possible to do this within the given timeframe without RAF.

Increased Quality – a result of removing manual, error-prone tasks related to configuration and deployment.



Volkswagen, Fortis - Kits

- Application Centric approach to deployment automation
- Treat packages of configuration as ‘Environments’
- On-the-fly creation of required artifacts (clusters, servers, etc.)
- 1 Kit, any environment structure.
- Packaged library of Build Forge steps

