

**Rational Technical** 

2005

# Introduction to J2EE Application Development Using Rational Application Developer for WS Ver 6.0

Rational. software



HongSeok, Kim Rational / Software FTSS hongseok@kr.ibm.com



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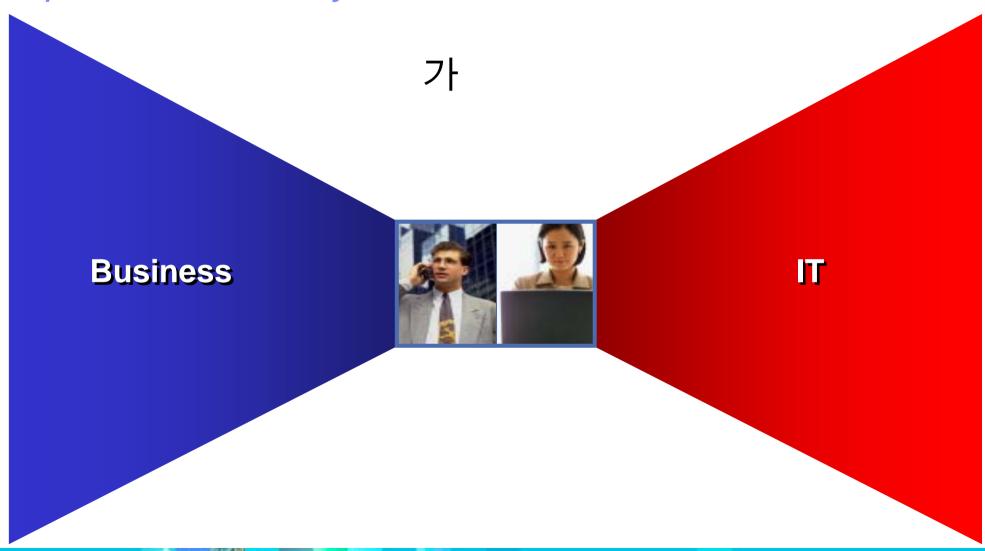
- Introduction
- IBM Software Development Platform
- Rational Tools Family
- Making Application Development easier
- RAD benefits and values







# Imperatives in Today's World





" end-to-end -, , " Business Processes **Business** 가 Design IT **Technology** Infrastructure 가 end-to-end

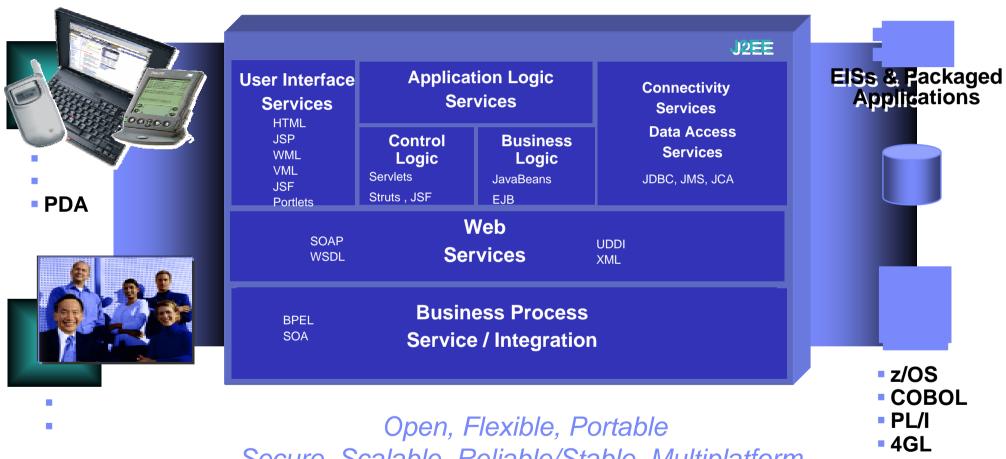








### e-Business



Secure, Scalable, Reliable/Stable, Multiplatform,
Object-Oriented







### (business-driven)









### The IBM Software Development Platform

Four Imperatives for Success











## The IBM Software Development Platform



**Analyst** 

WebSphere
Business
Integration
Modeler
& Monitor
Rational
Software
Modeler



Architect

Rational Software Architect



Developer

Rational Application Developer

Rational Web Developer



### Tester

Rational Functional & Manual Tester

Rational Performance Tester



Deployment Manager

Tivoli Configuration Manager

Tivoli Monitoring

Customer Extensions



3rd Party ISV Tools



Rational Project Console

Rational Requisite Pro Rational ClearCase

Rational ClearQuest

Rational Test Manager

Rational Unified Process

TEAM UNIFYING PLATFORM



Executive

Rational Portfolio Manager









IBM Rational Application Developer / Web Developer for WebSphere

Software

"J2EE/EJB Tooling"

"Code Analysis Tools"

"Web UI construction"

•

- HTML, JSP, Servlet

- Struts, JSF, SDO

"EGL"

IBM Rational Application
Developer

J2EE/EJB

Component/Unit

Portal/Portlet

Code

UML

Web Services

Web UI construction

Rich Client UI construction

Enterprise Generation Language

XML

**Eclipse Java** 

**RUP Configuration for J2EE** 

**ClearCase LT** 

"Component/Unit Test"

"Portal/Portlet Design Tools"

"UML Visual Editors"

"Web Services Tools"

"Rich Client UI construction"

- JVE (Java Visual Editor)
- Swing, AWT, SWT

"XML Tools"

"Eclipse Java Development Tools"

- J2SE
- , ,

(CVS, ClearCase,

SCM

•







# Challenges 1. , 가 2. 가 3.



```
Solutions
:
1. 가 .
2. .
3.
```





1

- 1

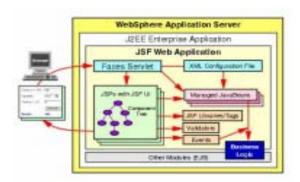
▶ HTML, JSP, XML, etc.

Servlet

, , , Servlet API .

(connectivity)

JDBC



가







### RWD(Rational Web Developer)

**-** 가

**HTML** 

**JDBC** 

Servlet

**▶** Java EGL







```
· 가
· API ,
```







### RAD (Rational Application Developer)

```
(Portlet)
/
UI
(Click to Action portlet-to-portlet information sharing)
```







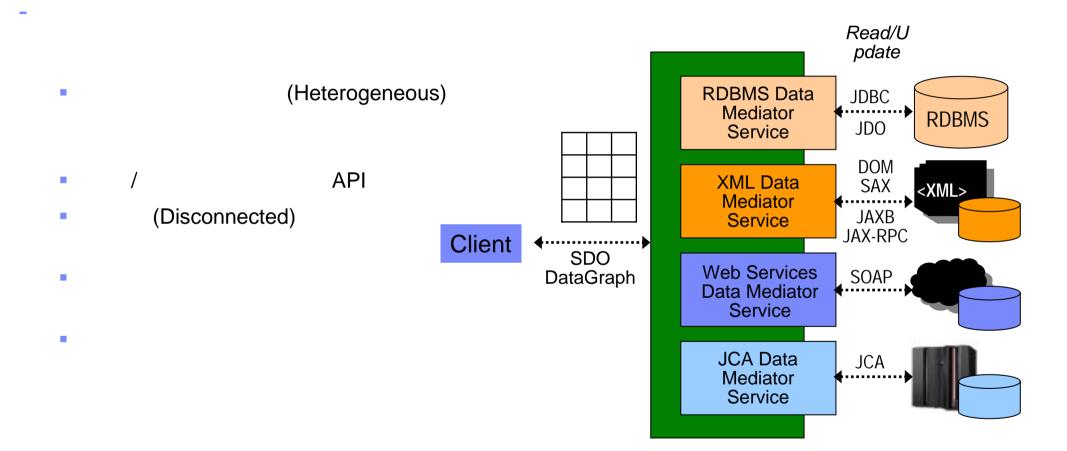
### UI

- Java Server Faces
  - ▶ MVC<sup>2</sup>
    - ,
  - ▶ Rich UI Components
    - JSP UI
    - 가 HTML
    - UI 가
    - •





### **Emerging Standard**









### Rational Web Developer – RAD for Web Developers

```
(CSS),
                                    , Fragments
Drag & Drop
 Point & Click
Event-driven
           UI
▶ JSF(JavaServer Faces), Struts, HTML
                                              Faces
Java
                    SWING, AWT, SWT
  Business-Oriented
                                가
non-Java
  XML
           (Learning Curves)
```





### Rational Application Developer – Advanced RAD

```
J2EE
                               J2EE
                                      UML
J2EE
            RUP Configuration
Crystal Report
 Embedded
```



### Rational Application Developer – Benefits

```
Tutorials
▶ Eclipse 3.0
          Application
                          (Open) Multi-tier J2EE
      TCO (Total Cost of Ownership)
▶ IBM Rational Software Development Platform
               가
```







### Rational

Workbench

Built-in

• 가

e-business

가





