



## **RAD V6 Tutorial Demos - Getting Started Guide**

by [Bill.Hahn@us.ibm.com](mailto:Bill.Hahn@us.ibm.com) and <http://JavaDevTools.com>

### **Welcome - Introduction and Tour**

The first thing you should do is watch the “[RAD V6 Tutorial Demos Introduction and Tour](#)” movie. This **essential** short multimedia tour will introduce you to the Tutorial Demo Series, including live demonstrations.

### **Summary of key links found throughout this document**

#### **Getting Started Materials:**

Here is your Getting Started Package for the RAD V6 Tutorial Demo Series:

- Introduction and Tour [Demo](#) (EXE - Self-running Demo)
- Introduction and Tour [Presentation](#) (PPT - PowerPoint)
- Introduction and Tour [Transcript](#) (DOC - 1 Page Quick Reference)
- Introduction and Tour [Getting Started Guide](#) (PDF - The latest version of *THIS* document)

#### **End-2-End Application Scenario:**

- [Demos](#) (Directory of EXEs - Self-running Demos)
- [Extra Tutorial Files](#) (ZIP - Solution Files - RAD Solution Workspace, Database, Source Code)

#### **Quick Success Scenario:**

- [Demos](#) (Directory of EXEs - Self-running Demos)
- [Extra Tutorial Files](#) (ZIP - Solution Files - RAD Solution Workspace, Database, Source Code)

#### **Banking & Finance Scenario – Customer Web Site (Building Web Apps and Web Sites):**

- [Demos](#) (Directory of EXEs - Self-running Demos)
- [Extra Tutorial Files](#) (ZIP - Solution Files - RAD Solution Workspace, Database, Source Code)

#### **Banking & Finance Scenario – Financial Advisor Dashboard (Building Portals and Portlets):**

- [Demos](#) (Directory of EXEs - Self-running Demos)
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# RAD V6 Tutorial Demo Series - *by Bill Hahn*



## Additional Resources:

Please visit <http://JavaDevTools.com> (a.k.a. <http://RationalCentral.com> and <http://WebSphereCentral.com>) to download the latest version of this Getting Started Guide and to get additional information related to WebSphere, Lotus, Rational and other IBM Eclipse-based Software Development Platform tools.

# RAD V6 Tutorial Demo Series - by Bill Hahn

The collage illustrates the RAD V6 development process across different layers of an application. It includes:

- End-2-End Page:** A form for submitting data to a Bean Web Service.
- EJBs:** A session EJB interface for a CMP SDO Facade.
- SDO:** A relational mediator interface for a Counter table.
- Web Services:** A Temperature Web Service interface.
- XML:** An interface for creating and reading XML documents.
- JSF:** A client-side data table and a bar chart.
- QuickSuccess:** A web browser displaying a gallery page.
- Financial Advisor's Dashboard:** A complex web application showing customer portfolios, including a table of customer data and a performance chart.
- Portfolio Management:** A detailed view of fund allocations and market simulation.

## Getting Started Materials:

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# RAD V6 Tutorial Demo Series – Who Benefits...

## Executives and Managers

- *Watch and Learn.* Simply view the “Tutorial Demo” movies to see ROI in action...in just minutes!

## Architects and Developers

- *Watch and Do.* Use the “Tutorial Demo” movies to build the reference applications from scratch!

### #1 End-2-End Application

The screenshot shows a multi-tier application. On the left, there are sections for 'Web Services' (Temperature, FairWeather), 'XML' (Create/Read XML Doc), and 'JSF' (Client-side data, Table, Graphs). The main area is divided into 'Input-Submit-Results' with a weather form (Zip: 11101, City: Long Island City, Temp: 28), 'Diagrams' showing service dependencies, and a 'Counter Usage' bar chart.

### #2 Quick Success Apps

The screenshot displays a 'Quick Success Gallery' with a central 'Welcome' message and a circular navigation menu. Below the menu, a tree diagram shows the application architecture with components like 'Weather', 'Java', 'EJB Web Service', 'SBO CMP Facade', 'JSF Page Data', 'DB List', and 'JSF Client Data'.

### #3 Banking & Finance

The screenshot shows a 'Financial Advisor's Dashboard' with a table of customer portfolios and a 'Customer Portfolios Performance' line chart. Below, there's a 'Banking > Finance > Portfolio Management' section with a table of fund assets.

Asset #	Fund Name	% of Fdls	3 Invented	18 Projctd	% Rate of Return	
101	Standard - Income Plus Life Strategy	7%	\$23,000.00	1	2.04%	\$23,531.20
102	Standard - Conservative Life Strategy	4%	\$13,000.00	2	1.24%	\$13,344.80
103	Standard - Moderate Life Strategy	1%	\$3,000.00	3	0.29%	\$3,112.20
104	Standard - Aggressive Life Strategy	7%	\$23,000.00	4	1.60%	\$27,146.40
105	Money Market	7%	\$23,000.00	1	1.24%	\$23,531.20
106	Bond - Income Plus	2%	\$7,000.00	1	1.20%	\$7,154.00
107	Bond - Total Bond	5%	\$15,000.00	1	1.02%	\$15,765.00

## Who Benefits:

- Executives and managers can simply watch the “Tutorial Demo” movies to see rapid ROI in action.
- Architects and developers can watch the “Tutorial Demo” movies to learn exactly how to build applications, from scratch. Complete source code, pre-populated cloudscape databases and related solution files included.



## What Rational Application Developer (RAD V6) is all about...

### RAD V6 is the core development tool of the IBM Software Development Platform

- *It is the foundation for the vast majority of all IBM development tools, including: WebSphere, Lotus, Rational, DB2, Tivoli, iSeries, zSeries and other IBM solution spaces.*

### Solution "Sweet Spots"

- *J2EE, Web Services, Service Oriented Architecture implementation, Portals and Portlets*
- *IBM Plugins extend RAD for enterprise-class Business Integration, Workplace and more...*



### What RAD V6 Is All About:

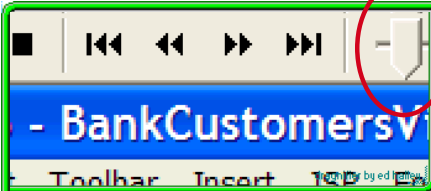
RAD V6 is the core development tool in the IBM Software Development Platform, establishing the foundation for the vast majority of all IBM development tools, including: WebSphere, Lotus, Rational, Data Management, Tivoli, iSeries and zSeries. Solution sweet spots include J2EE, Web Services, Service Oriented Architectures, Portals, Workplace, On Demand infrastructure and enterprise-class Business Integration.

# RAD V6 Tutorial Demo Series – How They Work...

- The embedded movie player has playback controls like a DVD player.
- The SLIDER allows accelerated forward/reverse playback control.



Magnified View of Slider



BankCustomers portlet

### Bank Customers

Customers Portfolios Dashboard

Cust #	First Name	Last Name	Address	City	State	Zip	e-mail	Work Phone
1	Arthur	Platinum	123 Easy Street	Long Island	NY	11101	Cash.A.Plenty@mail.com	773-123-1111
2	Betsy	Golden	43 Plush Circle	Arlington	VA	22202	Gold.P.Lated@mail.com	773-123-2222
3	Charlie	Silver	67 Humble Avenue	Fort Lauderdale	FL	33303	Simply.E.Nuff@mail.com	773-123-3333
4	Denise	Copper	89 Trailer Park Drive	Burghill	OH	44404	Always.N.Debt@mail.com	773-123-4444

BankPortfolios portlet

### Bank Portfolio Management

Customer #

Analyze Customer Portfolio

Fund Acct #	Fund Name	% of Folio	\$ Invested	Risk	% Return	\$ Projected
301	Blended - Income Plus Life Strategy	5%	\$25,000.00	1	2.125%	\$25,531.25
302	Blended - Conservative Life Strategy	5%	\$25,000.00	2	4.25%	\$26,062.50
303	Blended - Moderate Life Strategy	5%	\$25,000.00	3	6.375%	\$26,593.75
304	Blended - Aggressive Life Strategy	5%	\$25,000.00	4	8.425%	\$27,106.25
305	Money Market	5%	\$25,000.00	1	2.125%	\$25,531.25
306	Bond - Stable Value	10%	\$25,000.00	1	3.125%	\$26,281.25

Paused 00:59/01:06

## How They Work:

The Tutorial Demos balance entertainment value with technical depth to deliver concise demonstration scenarios, making the content ideal for executives, managers, architects, developers and whoever else needs to see the power of Rational Application Developer (RAD) V6. Live!

### End-2-End Application

“Accelerate development...  
increase productivity...  
maximize ROI !\$\$”

#### Iterative Development Demos

➔ Model, Build, Test, Debug, Deploy

- UML Model Visualizations
- Dynamic Development
- Automated Deployment

#### J2EE+ Builder Demos

➔ Includes JSF, SDO, Web Services

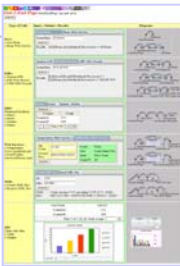
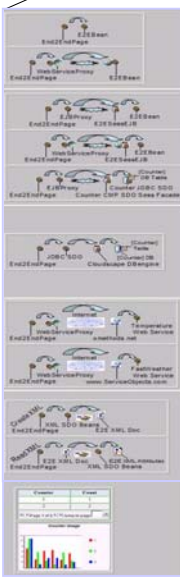

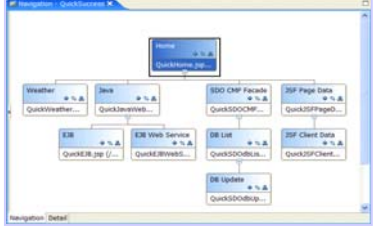
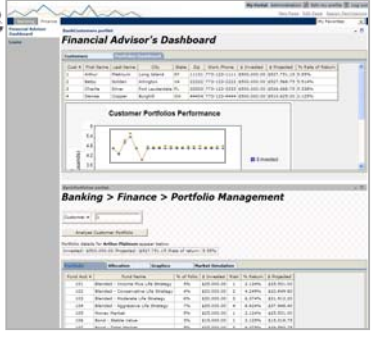
- Java
- Databases
- Web Services
- Drag-n-Drop GUI

### Quick Success Applications

- Easy build scenarios
- You watch or build
- < 10 minutes each

### Banking & Finance Web/Portal Applications

- Banking Accounts
- Portfolio Management
- Financial Advisor Dashboard

## How The Tutorial Demos Are Organized:

There are 4 Tutorial Demo collections, totaling over 75 concise, modular demos. The movies focus on building, testing, debugging and deploying applications. You can easily start viewing RAD-In-Action in less than 5 minutes. If you are a developer or architect, the demos teach you how to build the applications from scratch, complete with solution files. Executives and managers can concisely view how RAD accelerates development throughout Build, Test, Debug and Deploy scenarios

The Build Scenarios include coverage of J2EE, XML Web Services, SDO, JSF, UML, Performance Profile Analysis, Code Review for Best Practices, and a variety of Technology builders (editors and wizards)

The four tutorial demo collections include:

- A Quick Success set of single build scenarios
  - Web Services, SDO/Database, JavaBean, EJB, XML, Charts/Graphs
- A Financial Advisor Dashboard of Portlets, surfaced inside a Portal
  - Portfolio Management Summary View
  - Portfolio Allocation
  - Market simulation capabilities
  - Graphical analysis of Portfolio Performance Projections
  - Dashboard comparing customer portfolio performance, ranking clients
- A Banking and Finance customer website
  - Bank Account Mgmt: Balances, Transfer Funds, Transaction History
  - Portfolio Management: Summary, Allocation, Graphics, Mkt Simulation
- An End-2-End Scenario that is effectively a Hello-World example on steroids
  - One Page for the End-2-End Illustration of Building, Testing and Running with RAD V6

## End-2-End Application

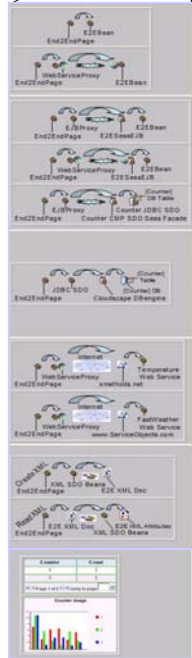
"Accelerate development...  
increase productivity...  
maximize ROI ! \$! "

### Iterative Development Demos

- ➔ Model, Build, Test, Debug, Deploy
- UML Visualizations
- Dynamic Development
- On-the-fly code changes
- Incremental build engine
- Testing for Java, EJBs, Web Services, etc...
- Dynamic Interactive Debugger
- Automated Application Packaging and Deployment

### J2EE+ Builder Demos

- ➔ Includes JSF, SDO, Web Services
- Java and EJBs (Session, CMP)
- Service Data Objects (SDO)
- SDO CMP Session Facades
- XML and XSD Schemas
- XML SDO JavaBean Bindings
- JavaServer Faces (JSF)
- Database and SQL
- Web Services Creation and Consumption



**End-2-End Page** (End2EndPage.jsp and .java)  
Call All

Type of Calls	Input->Submit->Results	Diagrams						
Java: o Java Bean o Bean Web Service	<b>Bean Web Service</b> SomeData: Hi Bean! Submit Results: [E2EBean.aJavaMethod] Processed >> Hi Bean!							
EJBs: o Session EJB o EJB Web Service o CMP SDO Facade	<b>EJB Web Service CMP SDO Facade</b> SomeData: Hi EJB WS! Submit Results: [E2ESesEJB anEJBMethod] Processed >> [E2EBean.aJavaMethod] Processed >> Hi EJB WS!							
SDO: Relational Mediator: o Select o Insert o Update o Delete	<b>Select Insert Update Delete</b> Refresh <table border="1"> <thead> <tr> <th>Counter</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>CounterA</td> <td>111</td> </tr> <tr> <td>CounterB</td> <td>200</td> </tr> </tbody> </table> Page 1 of 2	Counter	Count	CounterA	111	CounterB	200	
Counter	Count							
CounterA	111							
CounterB	200							
Web Services: o Temperature (www.smethods.net) o FastWeather (ServiceObjects.com)	<b>Temperature Web Service FastWeather Web Service</b> Zip Code: 11101 Cond: Clear License Key: WS14-PBJ1-KCVJ City: Long Island City State: New York Temp°F: 28 Submit							
XML: o Create XML Doc o Receive XML Doc	<b>Create XML Doc Read XML Doc</b> Id: 123 Info: Hi XML! Submit XML: <?xml version="1.0" encoding="UTF-8"?> <E2E> Doc: <ID=123<ID> <INFO=Hi XML!<INFO> <E2E>							
JSF: Client-side data: o Table o Graphs	<table border="1"> <thead> <tr> <th>COUNTER</th> <th>COUNT</th> </tr> </thead> <tbody> <tr> <td>CounterA</td> <td>111</td> </tr> <tr> <td>CounterB</td> <td>200</td> </tr> </tbody> </table> Page 1 of 2 	COUNTER	COUNT	CounterA	111	CounterB	200	
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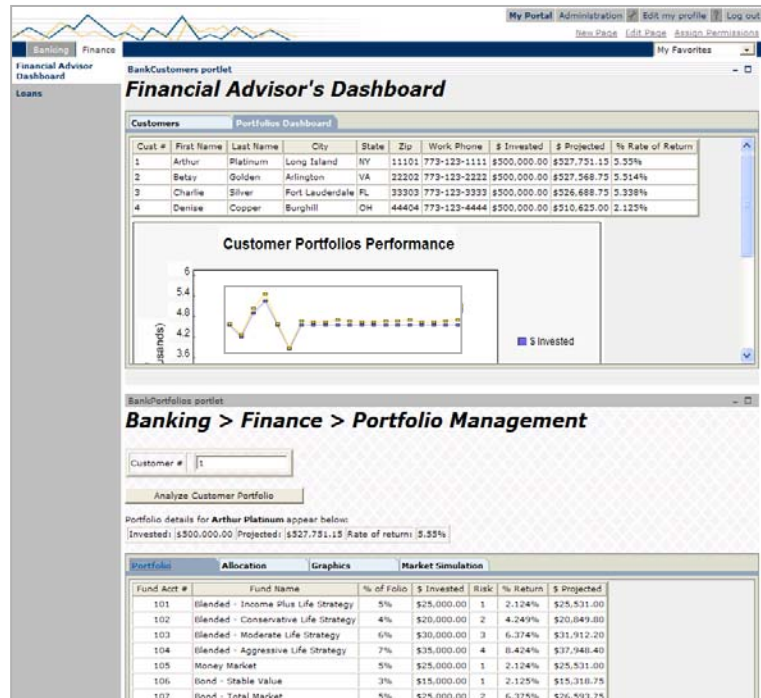
## Quick Success Gallery Applications

- Easy J2EE build scenarios
- Internet Weather Web Service
- JavaBean Web Service
- EJB Web Service
- Service Data Objects (SDO)
  - Database Mediator: Select, Insert, Update, Delete
- Java Server Faces (JSF)
  - Rich UI Controls, Charts/Graphs, drag-n-drop
  - Custom coding, Event Driven, MVC Framework

#2



#3



## Banking & Finance

### Web/Portal Applications

- Transfer Funds
- Transaction History
- Account Management
- Portfolio Management
- Asset Allocation
- Graphical portfolio analysis
- Stock Market Simulation
- Mutual Funds, Stocks, Bonds, Money Mkt

**Note:** The following Tutorial Demos are currently **SILENT (no sound)**.  
They will be narrated (with sound) in April, 2005.

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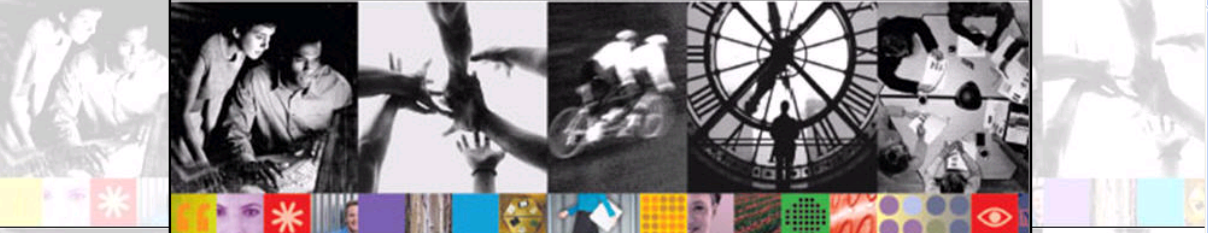
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*Navigating WebSphere, Rational, Workplace and other IBM Eclipse Based Tools...*

Homepage for: [RationalCentral.com](#), [WebSphereCentral.com](#), [WorkplaceDev.com](#), [JavaSOA.com](#), [Bill-Hahn.com](#)

Disclaimer: This is a private web site intended for IBM Eclipse Tools enthusiasts. The materials on this site are offered as-is, no support, no warranties. This is not an official IBM website. To achieve the official IBM experience, please visit <http://ibm.com>.

**2005/03/23 Updates**

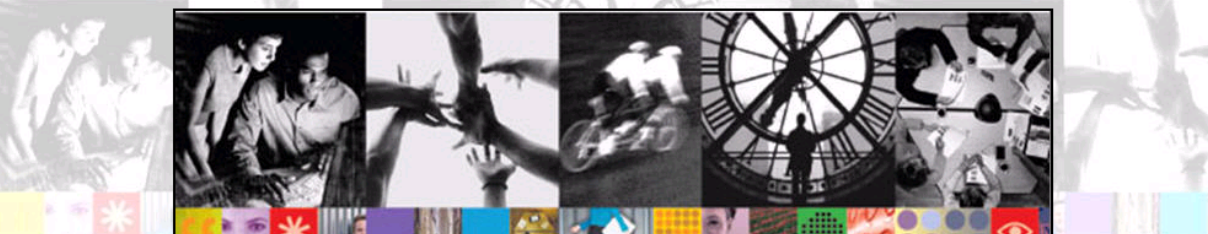
- o [New V6 Presentations and Seminar Demos Available](#)
- o [New RAD V6 Tutorial Demo Series coming this week...](#)

*Presentations, Demos and Developer Resources*

Developer Downloads...

- o [Presentations and Seminar Demos](#)
- o [Rational SDP Demos: Proj Mgr, Analyst, Arch, Dev, Tester](#)
- o [WebSphere Studio Demos: V5.1.1 JSF](#)

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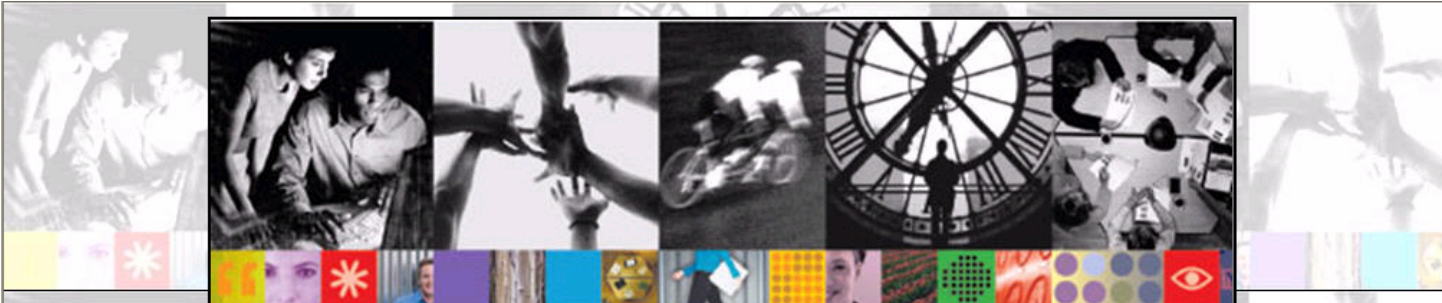
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[About Bill Hahn](#)

## About Bill Hahn



I enjoy my family, friends and my work at IBM. I hope this website helps you navigate IBM's Eclipse based tools more quickly and easily.

If you would like to know what I do at IBM, I've included a brief BIO below:

### BIO:

Bill Hahn is an IBM Senior Consulting Certified SW I/T Specialist focusing on Java tools, servers and middleware. In the last 10 years he has helped 100's of clients leverage Java based technologies. Bill has been working at IBM for the last 18 years and has been involved in system architecture, design, development and integration. He has programmed in a variety of languages including Assembler, Cobol, Fortran, PL/I, Pascal, Basic, C, C++, Smalltalk, and Java. He has also applied object oriented technologies with clients in North America, Europe and Asia as a system engineer, project leader, instructor and contract programmer.