



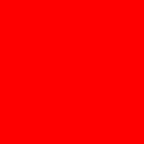
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Enabling Application Lifecycle Management with JDeveloper

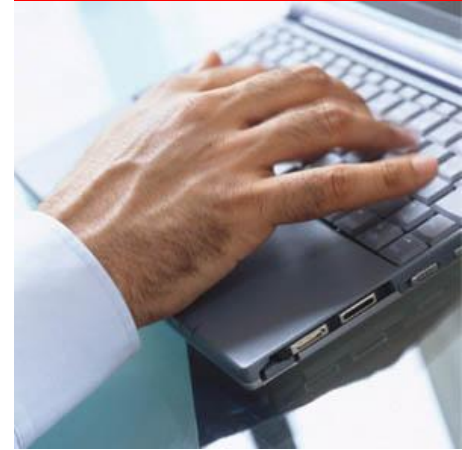
Susan Duncan
Principal Product Manager
Application Development Tools



The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

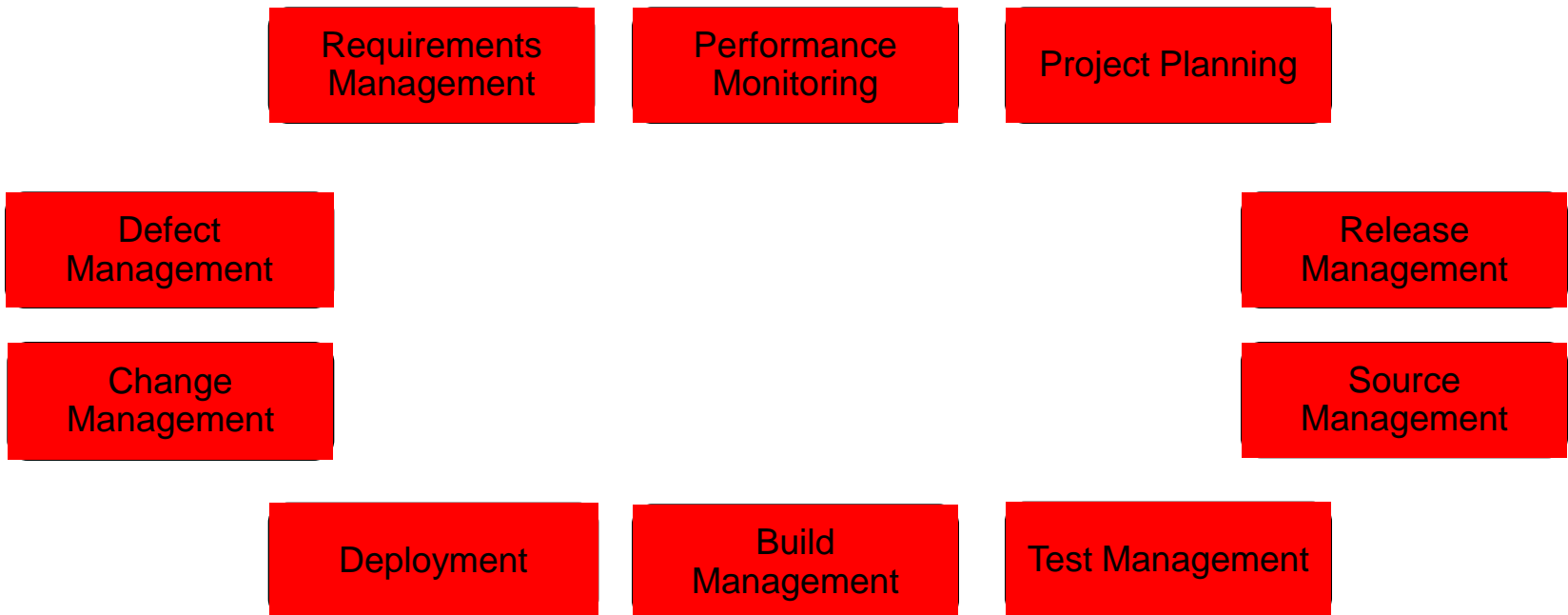
Presentation **Agenda**

- Introduction to
Application Lifecycle Management
- Versioning
- Team Productivity Center
- Build and Deploy
- Hudson
- Testing
- Summary



What is ALM?

Application lifecycle management (ALM) is defined to be: “The process of delivering software as a continuously repeating cycle of inter-related steps”.



Oracle Fusion Middleware

Complete, Integrated, Best of Breed, Hot Pluggable

- Built-in SCM Support
 - Subversion, CVS, ClearCase, Dimensions, Perforce, Microsoft Team System
- Build in unit testing with JUnit
- Remote deployment and debugging from the IDE
- Shared resource catalog
- Functional testing, load testing and test management with Oracle Application Quality Management Suite (Empirix)
- Lifecycle Management of SOA composites with ClearApp

Versioning



Introduction - Types of versioning system

- Lock - Modify - Unlock
 - Tools like this include Perforce, etc...
 - Safe and reliable but...
 - Locking files prevents other developers getting on with their work
 - Need to 'steal' locks
- Copy - Modify - Merge
 - Tools like this include Subversion, etc...
 - Everyone can get on with their work but...
 - Relies on good communication
 - File conflicts can happen

Introduction - Types of versioning system

- **Branching**
 - Available in both types of Versioning system
 - Good for longer tasks
 - Isolates you from changes until you decide to pull them in
- **Beware over branching**
 - Simple quick fix tasks are better merged directly back
 - Depending on the system branches may need to be archived
 - Or even removed once merged back to the main line

Demo



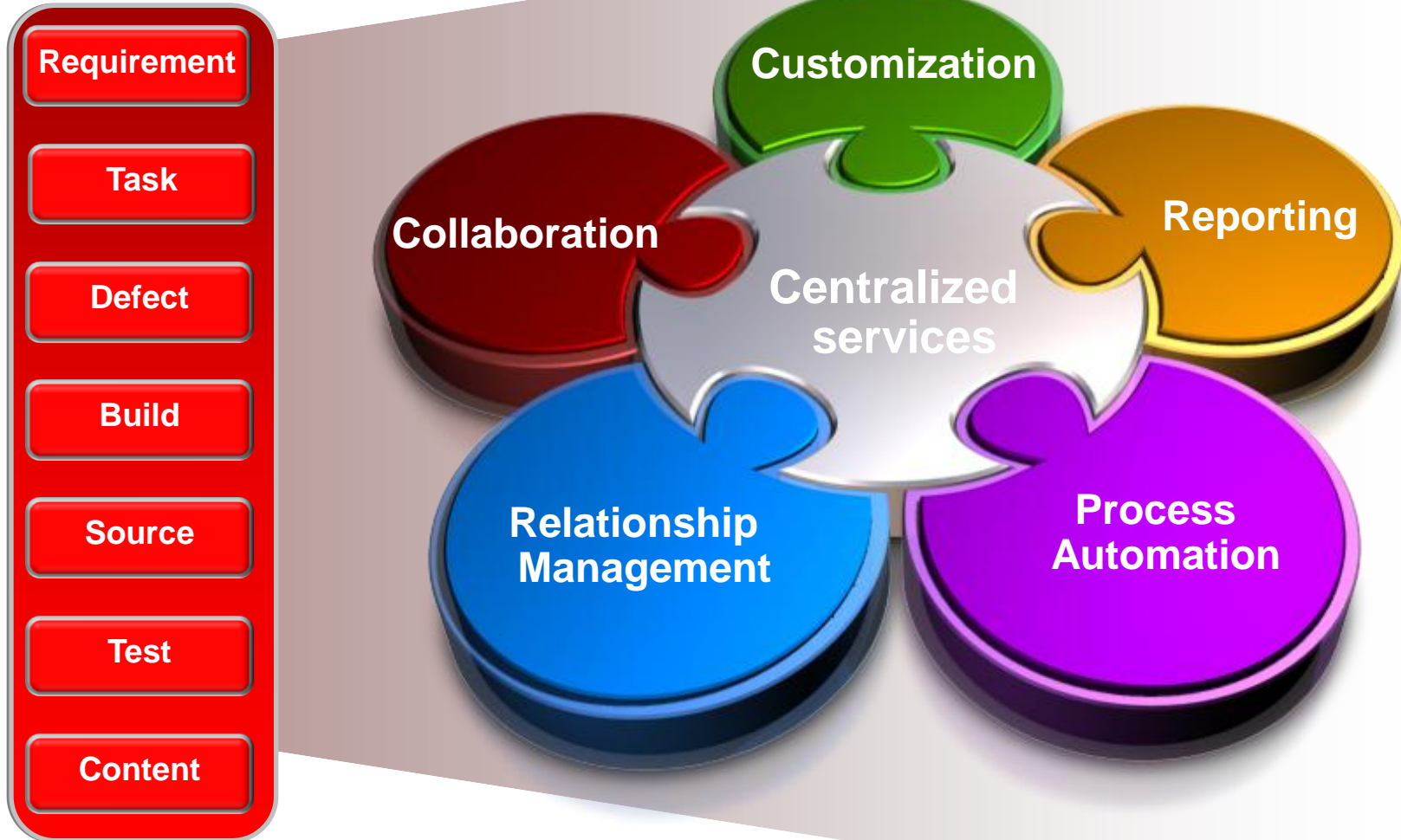
Oracle ALM Strategy

Complete, Integrated, Best of Breed, Hot Pluggable



Oracle ALM Strategy

Complete, Integrated, Best of Breed, Hot Pluggable

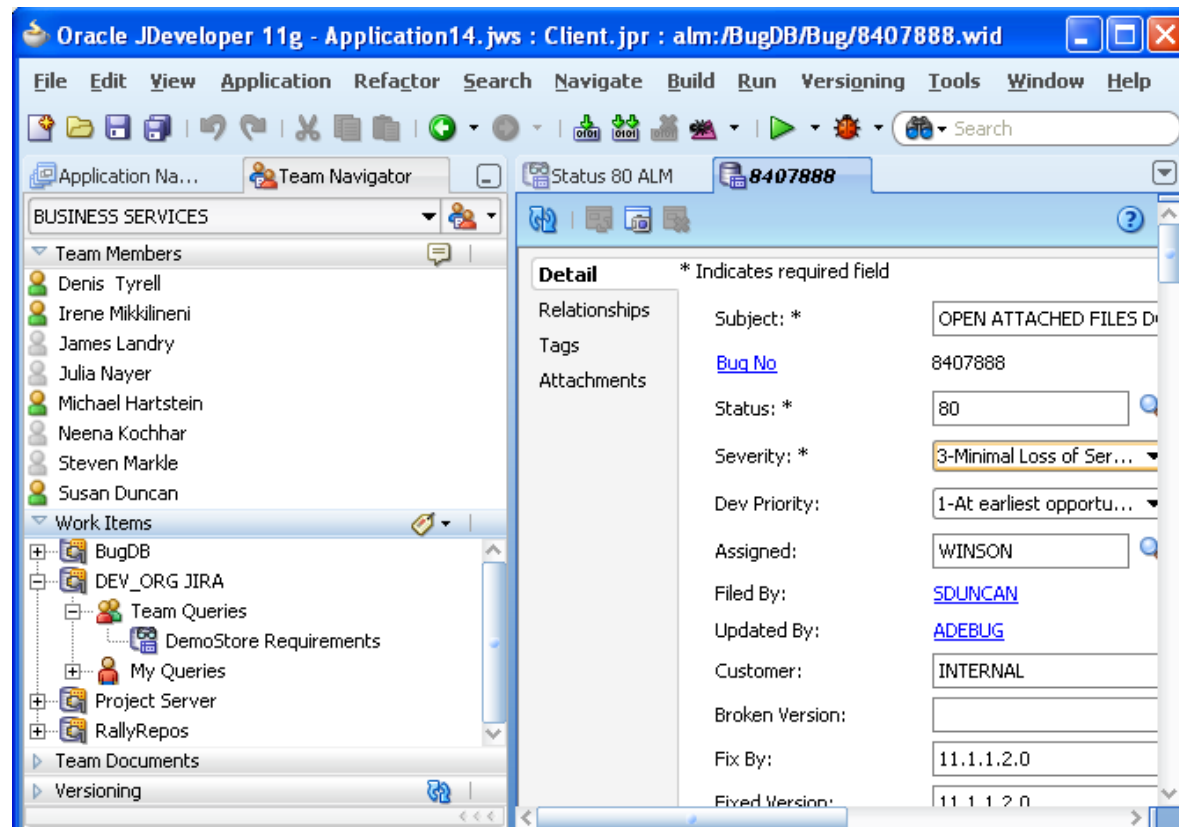


Team Productivity Center



Oracle Team Productivity Center For the Developer

- Team definitions
- ALM repository integration
- Versioning
- Collaboration - chat

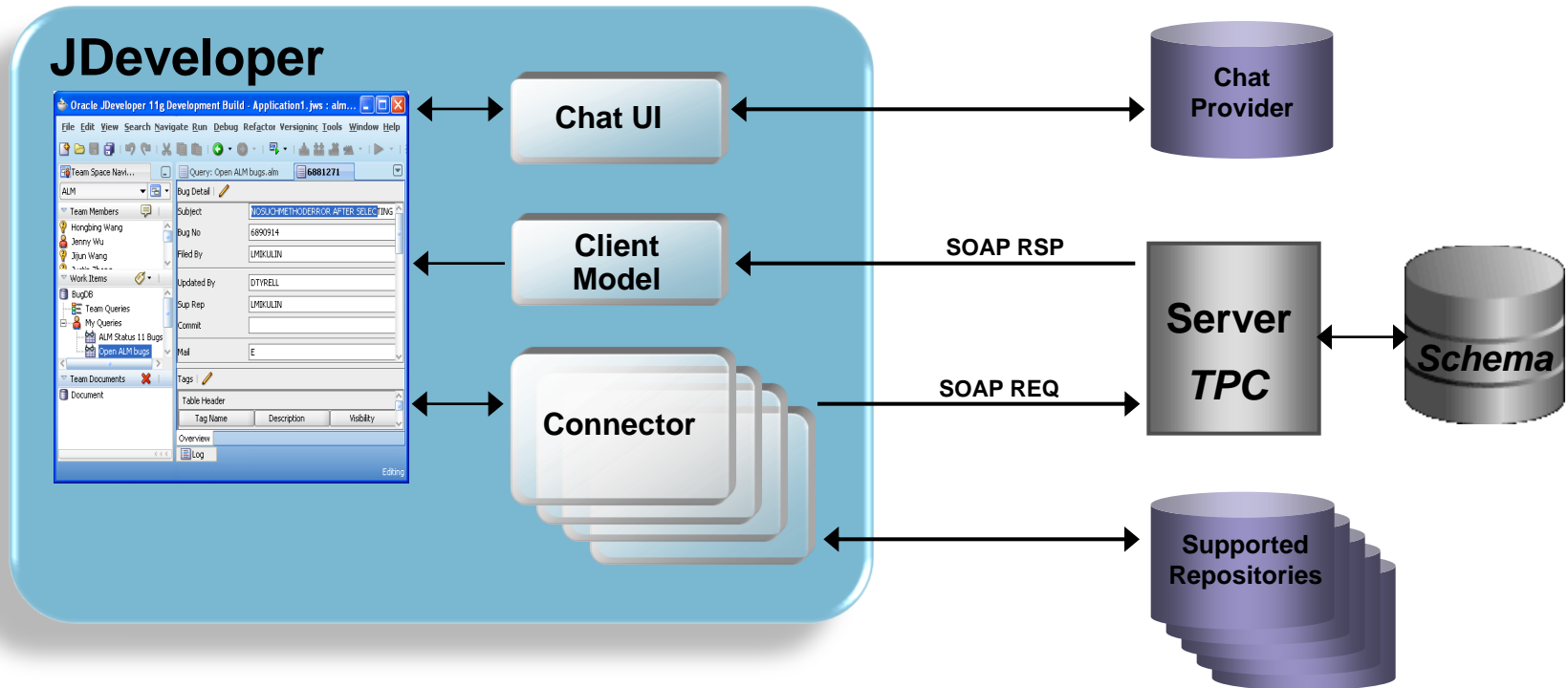


Demo



Oracle TPC Architecture

Open & Extendable



Build and Deploy

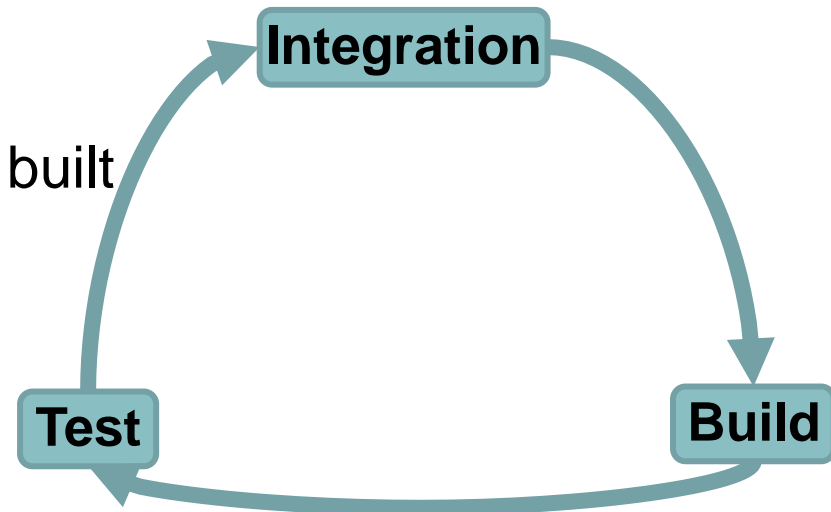


ADF Applications

- Build
 - OJDeploy
 - Does the building work
 - Can be called directly in the simplest manner
 - Takes the App.jws file and deploy profile as arguments
 - Can be configured using a build xml script
 - There is an Ant wrapper for OJDeploy once your build moves up a gear
 - Maven support
- Deploy
 - Deployment profiles and descriptors
 - One-click deployment
 - Archive file

Introduction to Continuous Integration

- Keep your work in a repository
- Integrate your work frequently
- Each integration is automatically built
- Test integrated with build
- Requirements
 - Run automatically
 - SCM operation triggered
 - Integrated tests
 - Feedback
 - Analysis
- Benefits
 - Discovers errors more quickly thereby reducing fix time
 - Makes the project available to everyone to install
 - Everyone is involved and therefore takes a stake in maintenance



Hudson

- Open source “continuous integration” (CI) server.
 - Check out source code
 - Build and test the project
 - Publish the results
 - Communicate results to team members
- Project sponsored by Oracle
- Oracle provides the infrastructure
- Extendable infrastructure provided by plugins
 - Maven
 - SVN (and other SCM systems)
 - Build Notifiers, Rports, Tools, Triggers
 - Analysis
 - Authentication

Hudson Demo

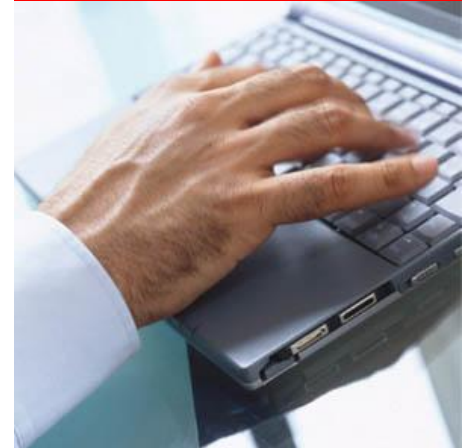


Testing

- Debugger
- Auditing
 - Rules and metrics
 - Profiles
- Unit Testing with JUnit
- ADF Logger
 - Don't use `system.out.println`
- Profile Monitors
 - CPU, memory
- Abbott – swing clients
- Web-based UI
 - Selenium
 - Firebug

Presentation **Summary**

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- Versioning
- Team Productivity Center
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- Hudson
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