Profile-Direct Teller

Real-time Core Banking on Eclipse RCP

Jason Ladd – Fidelity National Information Services
Requirements

- Rapid Application Development
  - Leverage an Application Framework
- Client Customization
- Ease of Deployment
- Desktop Performance
- Device Integration
- Offline Support
Eclipse RCP Benefits

- OSGi Bundles/Plug-ins
- Application Framework
  - Workbench, Perspective, Actions, etc.
- SWT Performance
- Product Branding
- WebStart Deployment
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<th>Branch</th>
<th>Teller</th>
<th>Account</th>
<th>Transaction Code</th>
<th>Amount</th>
<th>Curr</th>
<th>PM</th>
<th>Comment</th>
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<td>SD - Sav Deposit</td>
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<td>USD</td>
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Plug-in Design

- com.fnis.pd.teller
  - Product configuration and customization
  - com.fnis.client_name.teller
- com.fnis.pd.teller.base
  - RCP and core teller application code
- com.fnis.pd.core
  - Data access beans and managers
- com.fnis.jdbc
- com.epson.pos
  - Epson device code
Extension Points

- RCP Extension Points
- Eclipse-Spring Plug-in
<beans>
  
  <bean id="hostConnectionChoiceDialog" class="com.fnis.pd.teller.view.HostConnectionChoiceDialog">
    <constructor-arg><value>host-selection.properties</value></constructor-arg>
  </bean>

  <bean id="connectionString" class="org.springframework.beans.factory.config.MethodInvokingFactoryBean">
    <property name="targetObject"><ref local="hostConnectionChoiceDialog"/></property>
    <property name="targetMethod"><value>prompt</value></property>
  </bean>

  <bean id="navigationView" class="com.fnis.pd.teller.view.NavigationView">
    <property name="navigationActionFactories">
      <list>
        <ref bean="depositAction"/>
        <ref bean="withdrawalAction"/>
        <ref bean="transferAction"/>
        <ref bean="loanPaymentAction"/>
        <ref bean="loanDisbursementAction"/>
        <ref bean="loanPayoffAction"/>
        <ref bean="creditCardPayoffAction"/>
        <ref bean="officialCheckAction"/>
        <ref bean="advancedEditorAction"/>
        <ref bean="reversalEditorAction"/>
        <ref bean="transferCashAction"/>
        <ref bean="cashChecksAction"/>
      </list>
    </property>
  </bean>
</beans>
Challenges

- Plug-in Configuration Learning Curve
  - Require-Bundle: visibility
  - Eclipse-BuddyPolicy:
  - Eclipse-RegisterBuddy:
- WebStart and OSGi
- SWT
  - Custom Widgets
TUPperware

- Teller Unification Project (TUP)
- Merging Functionality and Application Frameworks onto Eclipse RCP
  - AWT SWT Integration
- Moving to Spring Dynamic Modules
  - Spring and OSGi integration
- 3.3 to 3.4
  - Forms API
  - Databinding
- Integration with a Service-Oriented Architecture
Questions?

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