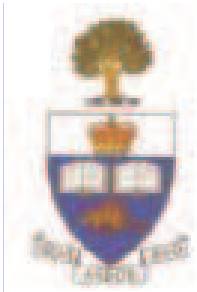

IBM Software Group

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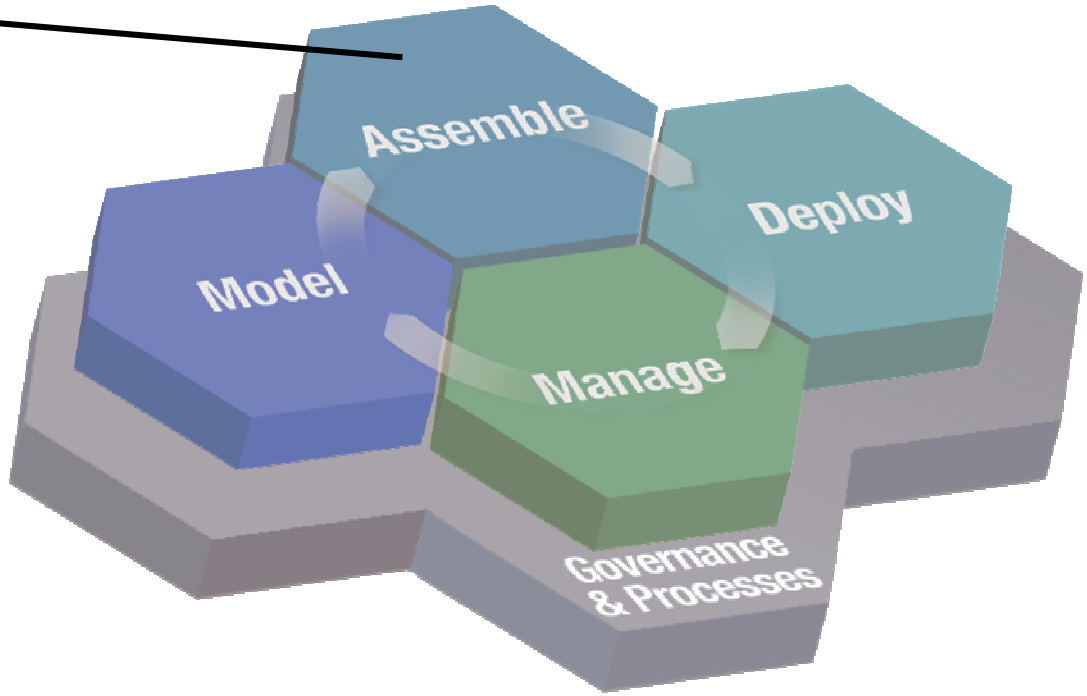
WID Lab Introduction

ON DEMAND BUSINESS™

SOA Lifecycle…

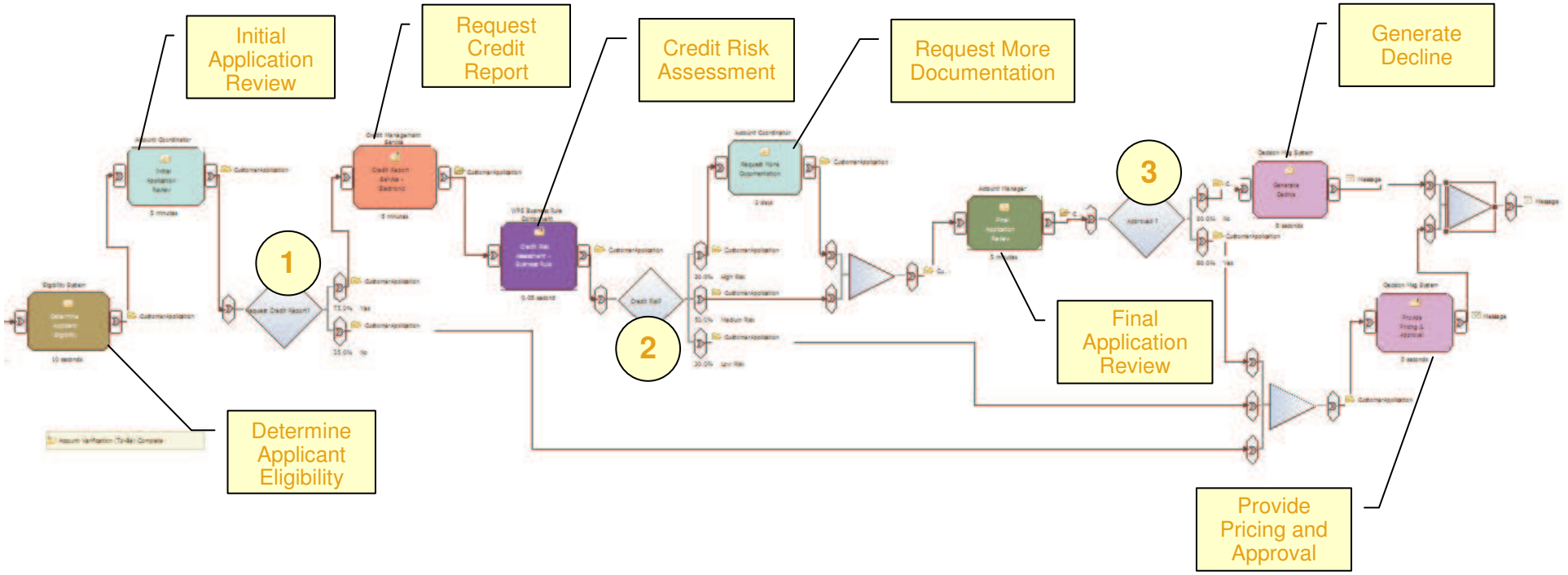
We will begin here in this lab exercise



Scenario

- Assumption is that issues with the existing or deployed process (As-Is) were discovered
  - Using the WebSphere Business Monitor
- A Business Analyst has already modeled, simulated and validated an optimized version (To-Be) to improve business process performance
  - Using the WebSphere Business Modeler
- You will play the role of an Integration Developer, and will implement the improvements to the existing or As-Is business process
  - Using the WebSphere Integration Developer and WebSphere Process Server

Scenario



- Account Verification Process
  - Developed with WebSphere Business Modeler

- Key decision points:
  1. Is credit report needed?
  2. What is the credit risk
  3. Final application approval

Lab Parts

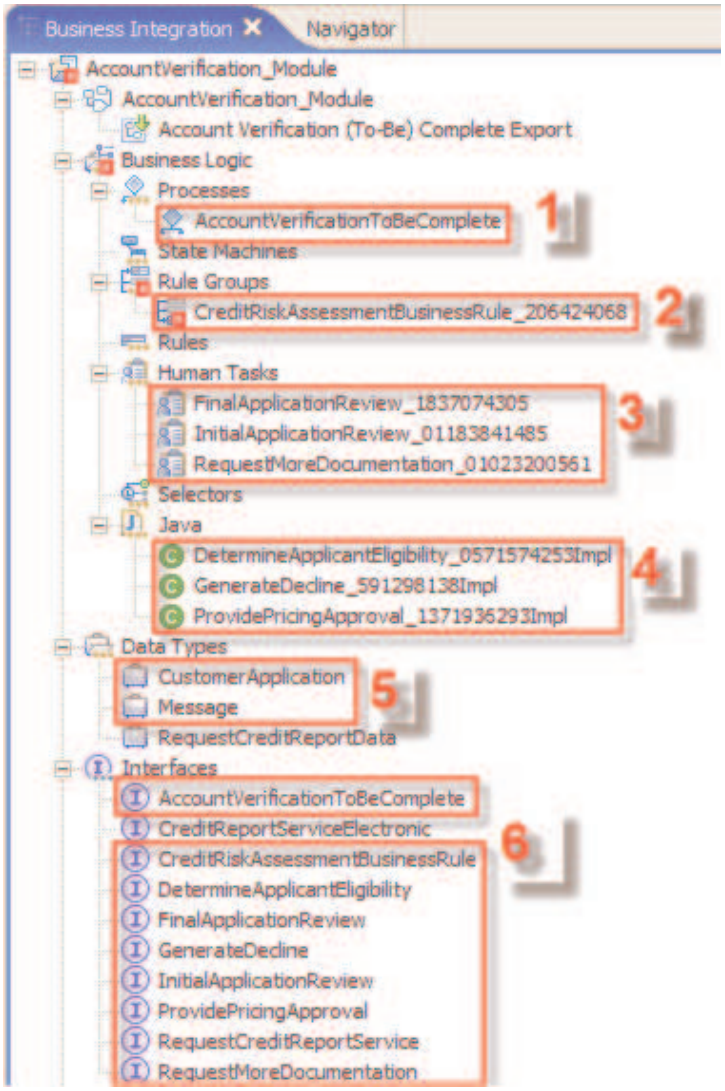
- **Part 1:** Examine the Account Verification Business Model (completed last week)
- **Part 2:** Examine WID and the Account Verification Process
- **Part 3:** Create Originating Human Task for Process Launching
- **Part 4:** Configure the Human Tasks to Use Custom JSPs
- **Part 5:** Implement the Java Components
- **Part 6:** Implement the “Credit Risk Assessment” Business Rules Group
- **Part 7:** Implement the “Request Credit Report” Interface as a Web Service
- **Part 8:** Test the Process

Part 1: Examine the Account Verification Business Model

Part 1 was completed in last week's lab

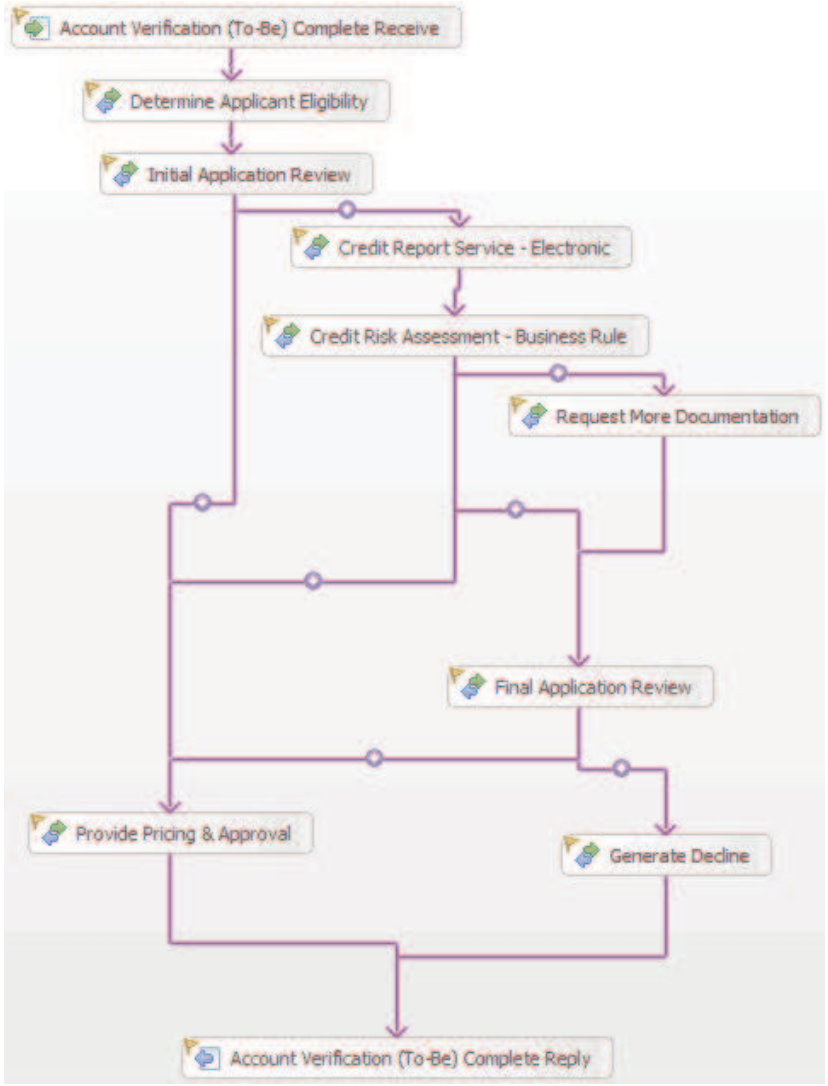
- Examine the current Account Verification Business Model
  - Already implemented and deployed to production
  - Several issues exist
  - Referred to as the As-Is process
- Examine the optimized version of the Account Verification Model
  - Contains changes to the model to improve customer satisfaction, cost reduction, and revenue generation
  - Business model changes need to be implemented
  - Referred to as the To-Be process

Part 2: Examine WID and the Account Verification Process

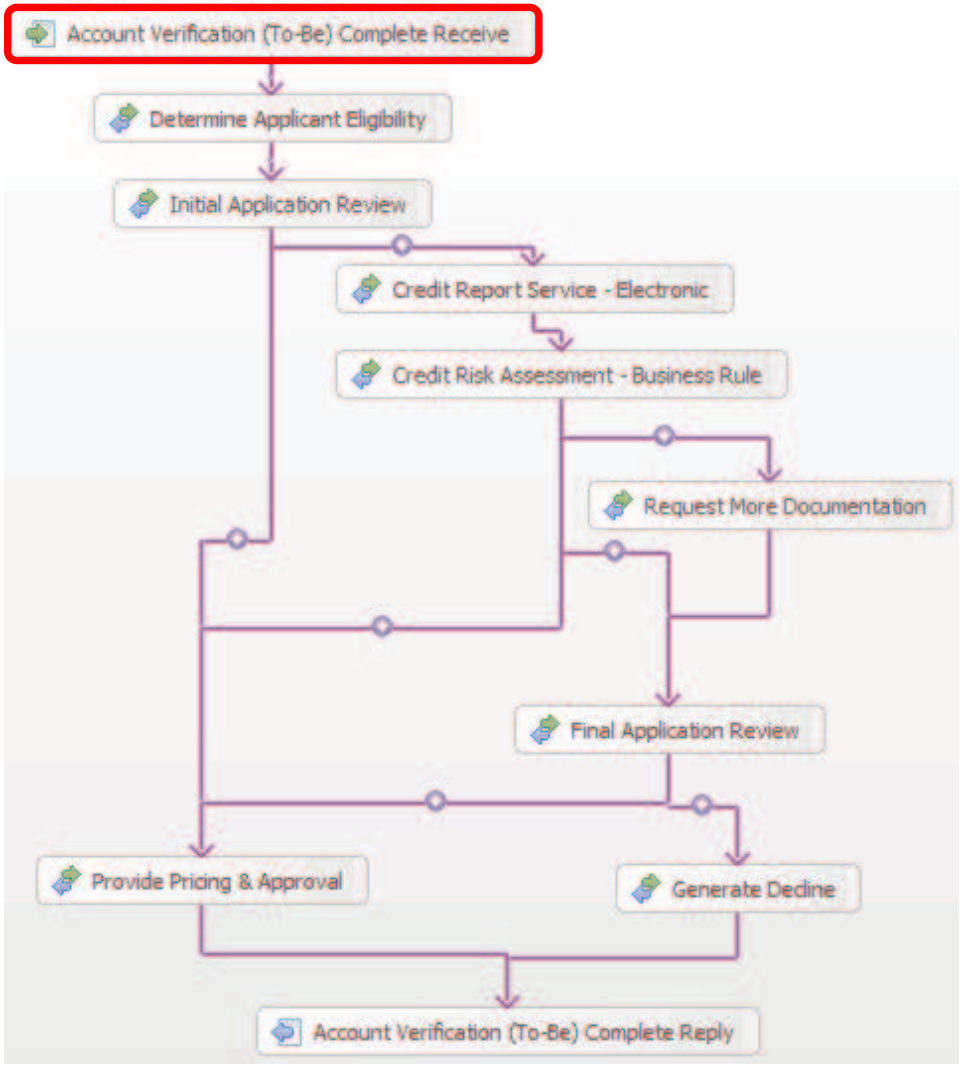


1. Account Verification Component implemented as BPEL Process.
2. Credit Risk Component implemented as Business Rule Group Component.
3. Final Application Review, Initial Application Review and Request More Documentation components implemented as Human Tasks Components.
4. The Java skeletons for the Java components (Determine Applicant Eligibility, Generate Decline and Provide Pricing Approval).
5. The Business Objects that represent the input and the output message for the Account Verification process.
6. The Interfaces which represent the interfaces for the BPEL Component (AccountVerifcationToBeCompleted), and below it, the interfaces for the Components that the Account Verification process invokes.

Part 2: Examine WID and the Account Verification Process

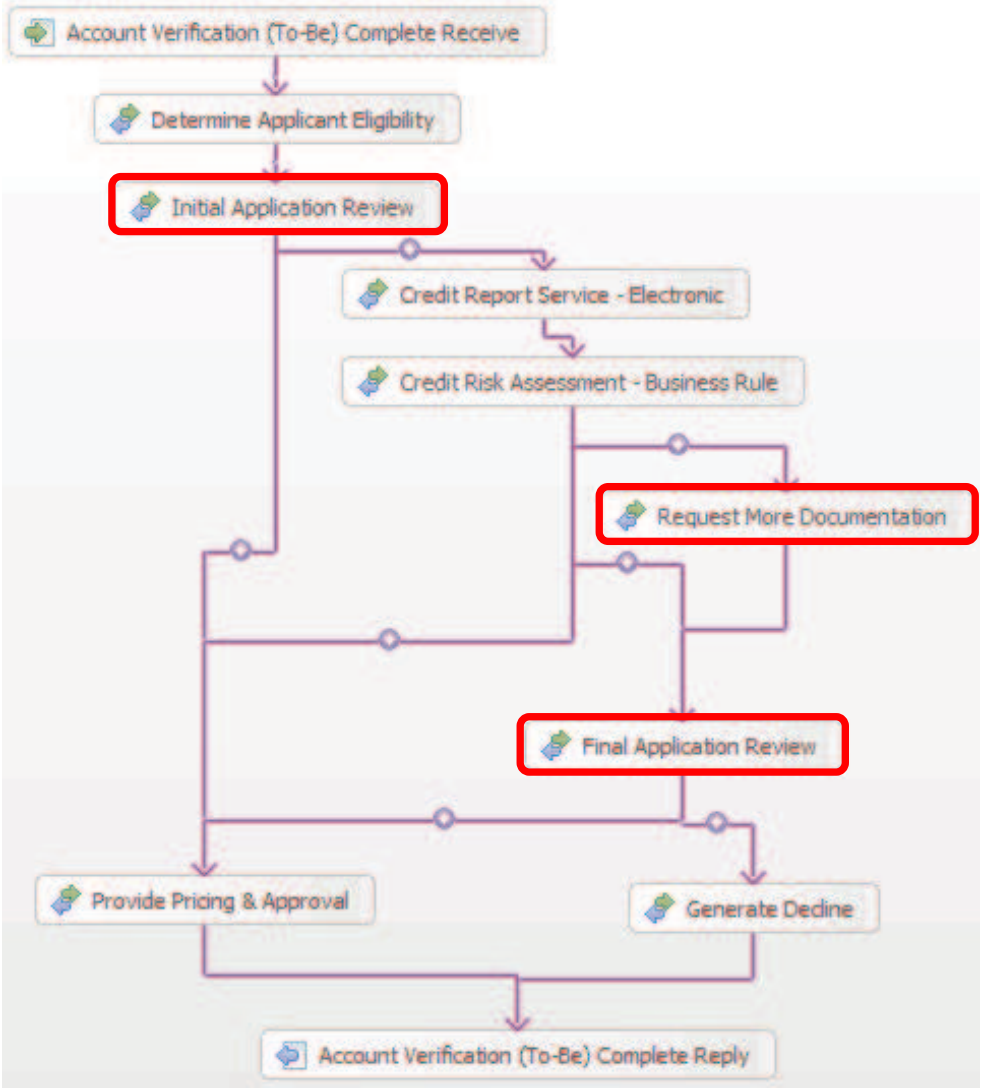


Part 3: Create Originating Human Task for Process Launching



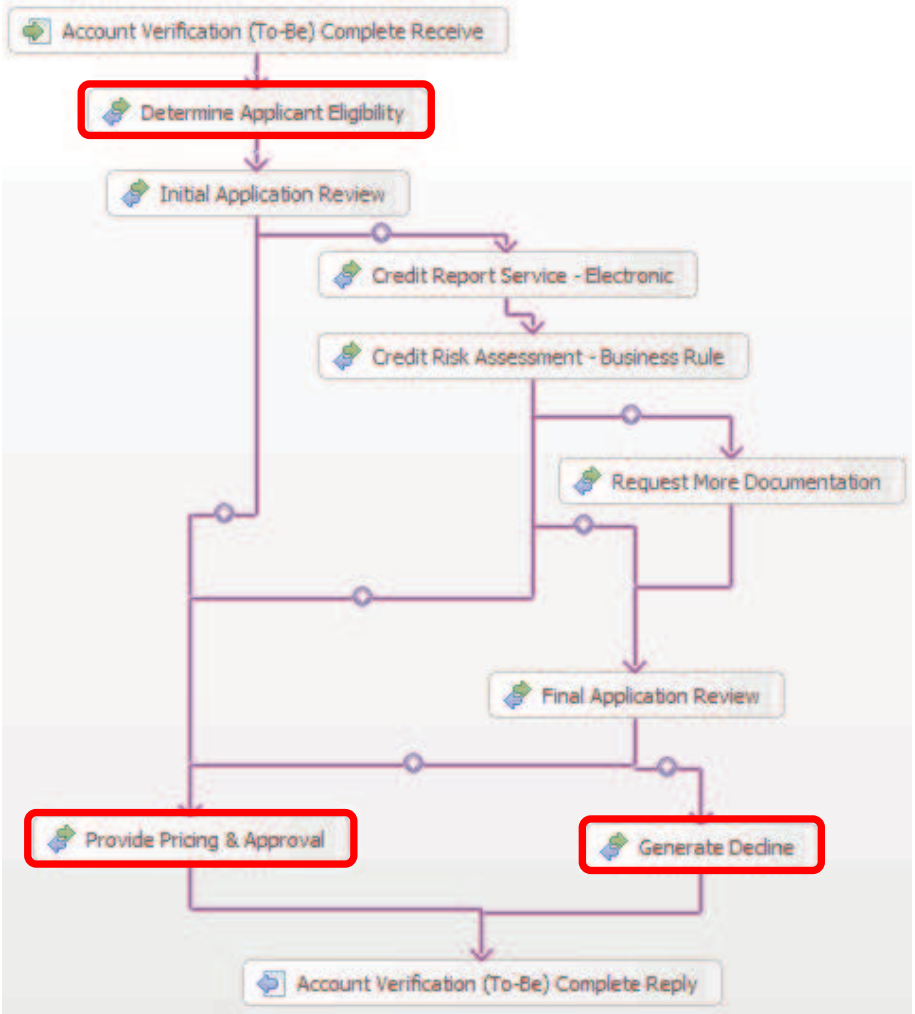
- Create Human Task
- Human Task Editor
  - Configure JSP for data entry

Part 4: Configure the Human Tasks to Use Custom JSPs



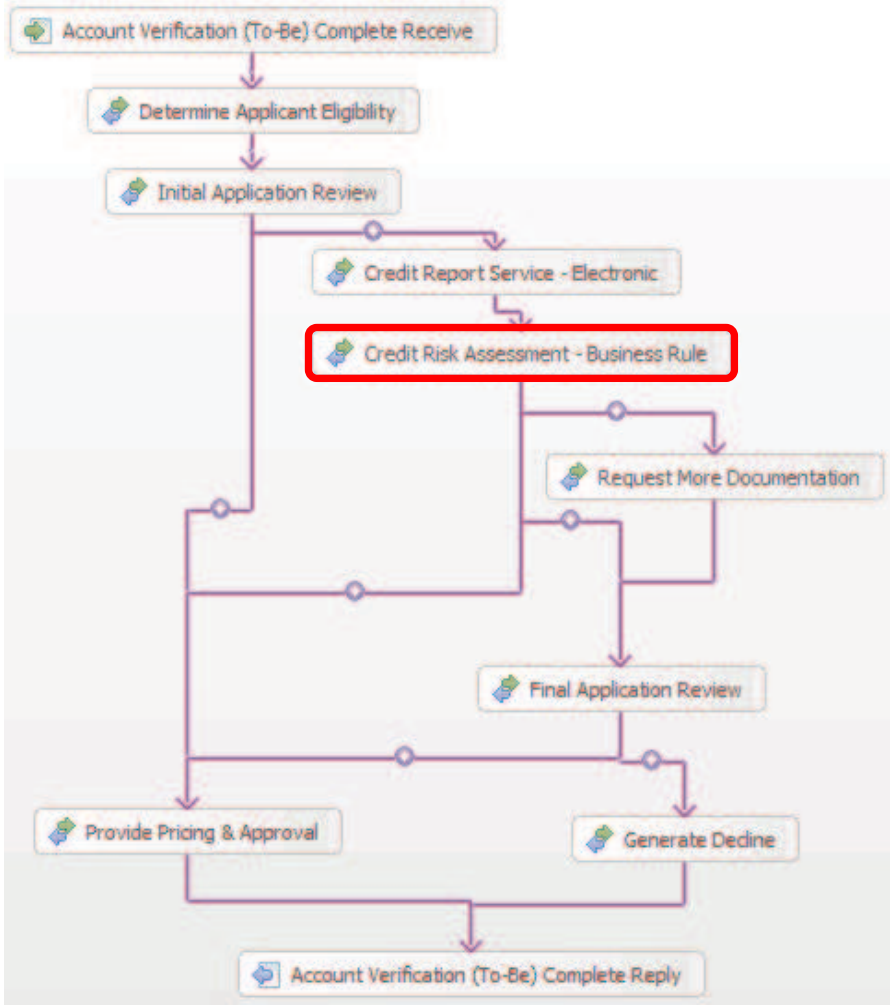
- In WBM we decided that three Activities will be implemented as Human Task Components
  - Created by WBM Export to WPS
- Human Task Editor
  - To each human task add JSPs for data presentation and data entry

Part 5: Implement the Java Components



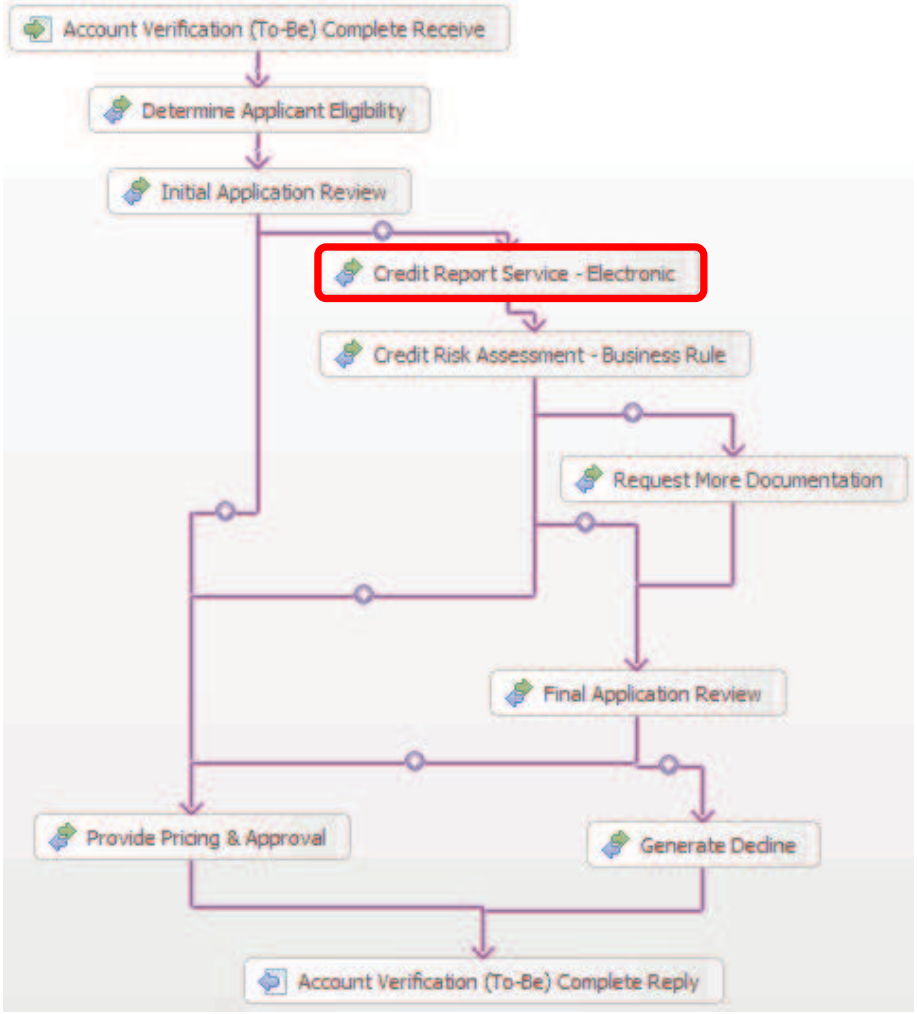
- In WBM we decided that three Activities will be implemented as Java Components
  - Created by WBM Export to WPS
- Note that other implementation types might have been chosen:
  - i.e. Business Rule
- Java Editor
  - This task is performed by a J2EE developer as it requires Java skills

Part 6: Implement the Business Rules Group Component



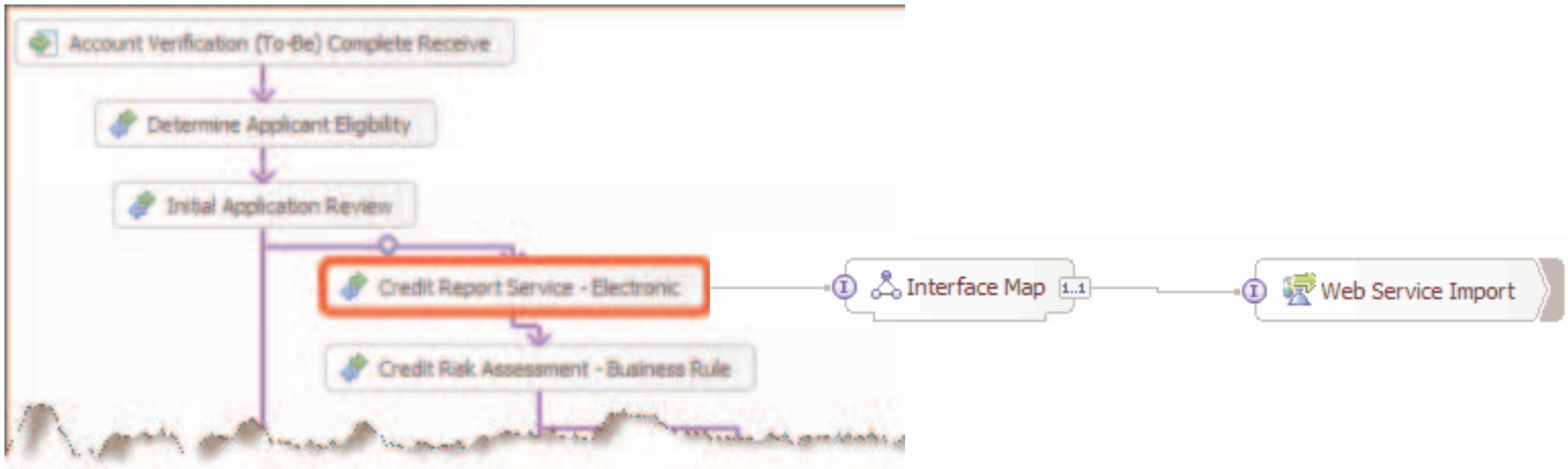
- In WBM we decided that the Credit Risk Assessment Activity will be implemented as Business Rule Group Component
  - Created by WBM Export to WPS
- We decided to use an existing Web Service
  - With already defined interface
  - With already defined input/outpt messages
  - Since the interface defined in WBM is different we need to use Mediation

Part 7: Implement Credit Report Task as a Web Service



- In WBM we did not make any decisions about the implementation of the Request Credit Report Component
  - Consequently **Unimplemented** Component was created by WBM Export to WPS
- Business Rule Set Editor
  - Visual editor to create buiness rule logic, and
  - User interface for on-line rule management
- Business Rule Group Edior
  - Assembles Rule Sets into components

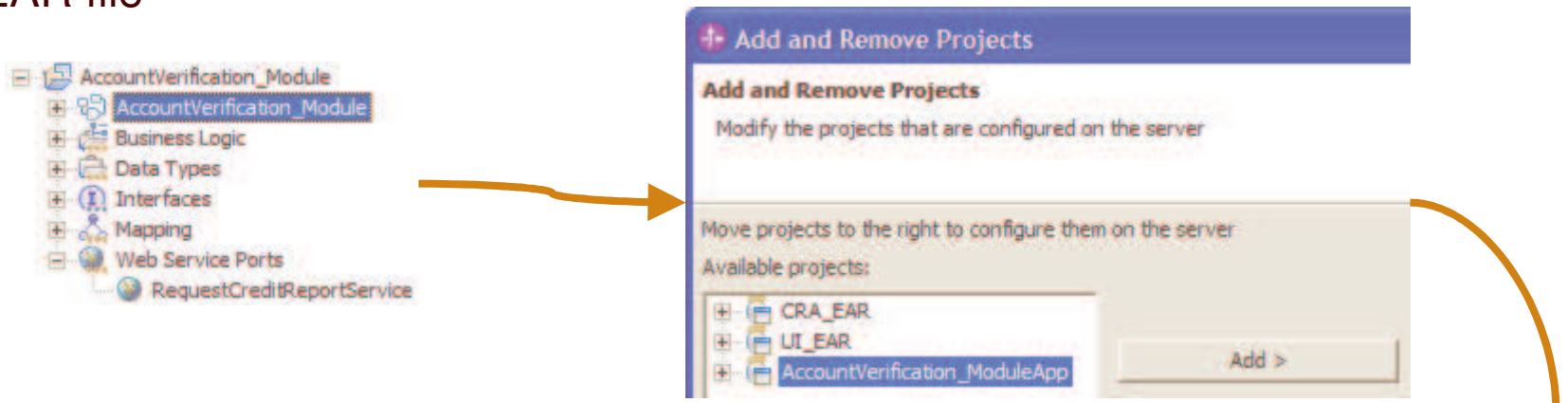
Part 7: Implement Credit Report Task as a Web Service



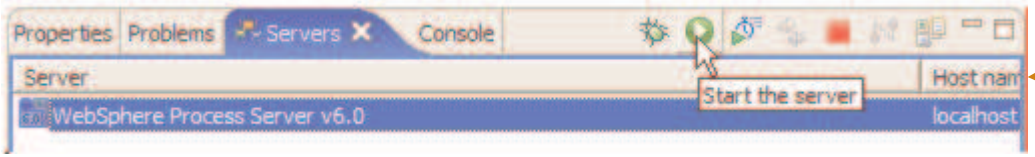
- Interface Map Editor
  - Map the interface of the Credit Report Service Component to the Web Service
- Assembly Diagram Editor
  - Wire the Interface Map compoenet to Web Service and the Process

Part 8: Test the Process

- The ApplicationVerification_Module project was compiled incrementally into EAR file

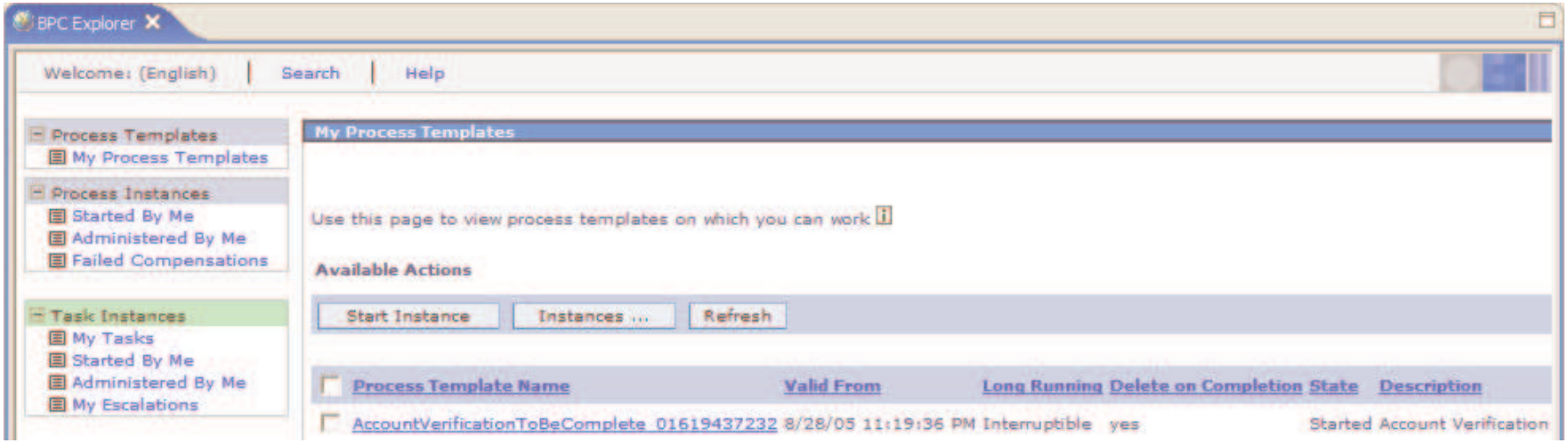


- The EAR file is ready to be deployed on the WPS from WID



Part 8: Test the Process

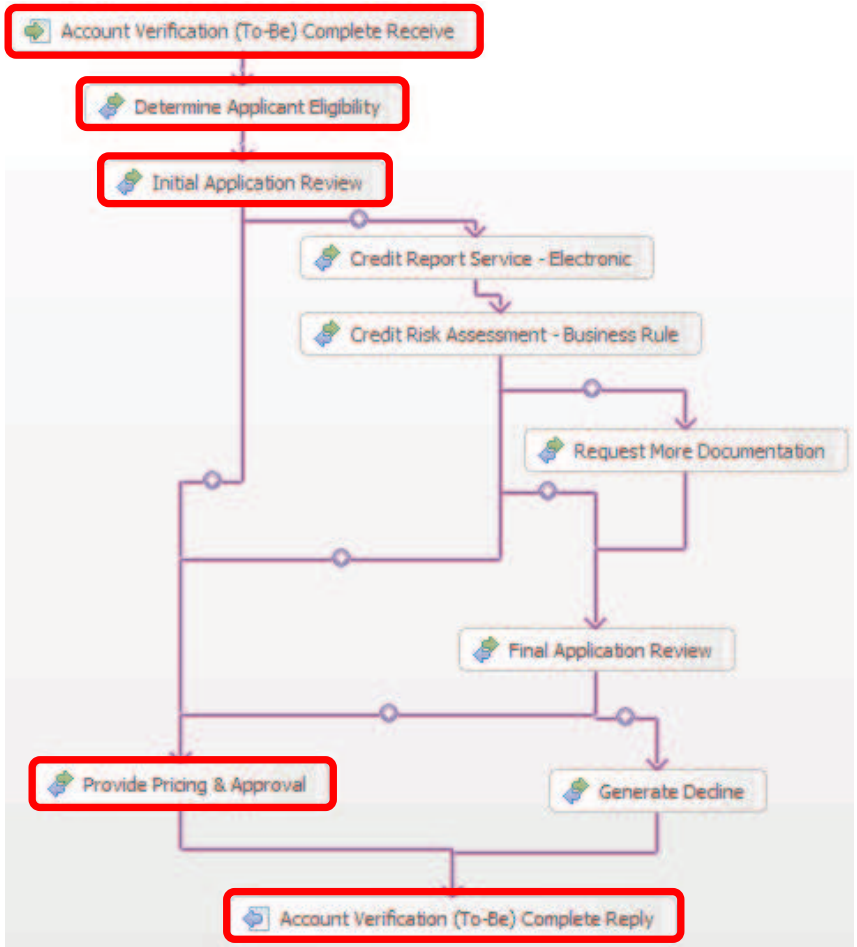
- Business Process Choreography (BPC) Explorer



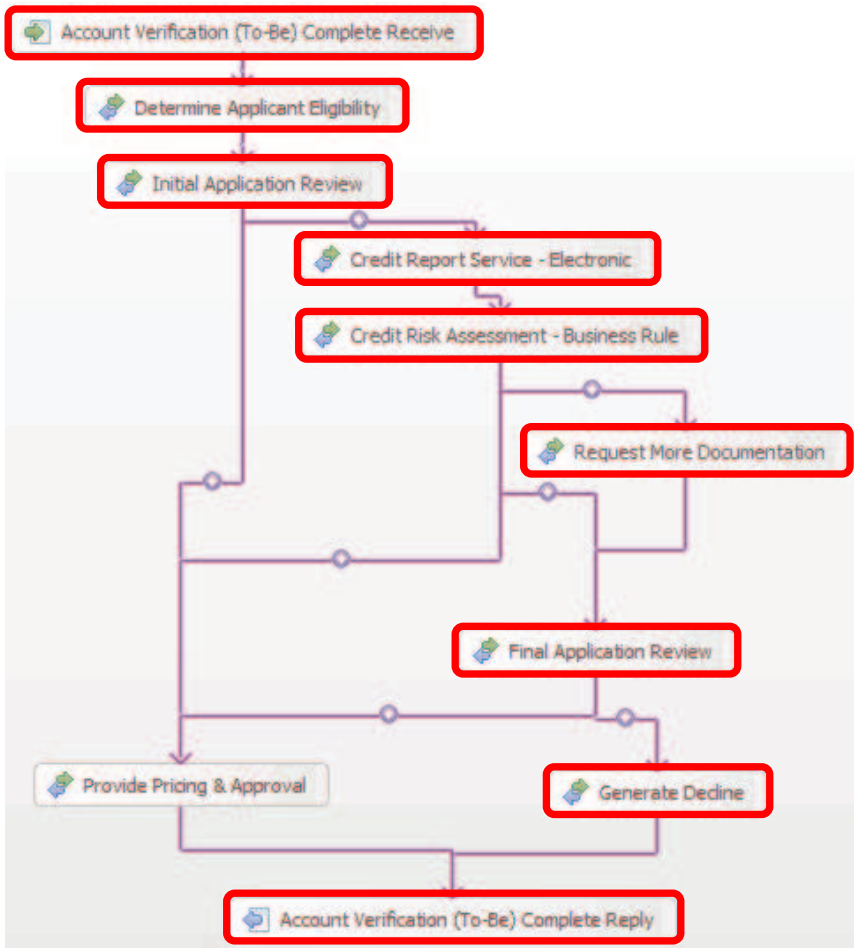
- A process testing and administration tool:
  - Start and administer process Components
  - Start and administer Human Task Components

Part 8: Test the Process

- Path 1



- Path 2



Optional Exercises

Not required unless you are interested in these features

- **Part 9: Examine the Common Base Events (CBE)**
  - Examine the IT-Related Common Base Events
- **Part 10: Dynamic Business Rules**
  - Use the Business Rules Manager to make changes to the business rules without redeploying the process or restarting the WebSphere Process Server
  - Showcases how a Business Analyst or other Line of Business role can dynamically change the behavior of a running process
  - Additional IT Flexibility to support Business Flexibility

Thank You