



Leveraging OCS and BPEL for seamless document management

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Agenda

- About AKT America, Inc.
- Business Requirement Functional overview
- Solution using Oracle SOA/BPEL
- Brief Introduction to BPEL
- OCS Web Service APIs
- Integrating Oracle BOM with OCS
- Q&A





About AKT America, Inc.

- Manufacturer of systems used in LCD production
- Operations in US, Europe, and Far-East
- Engineering-intensive with outsourced manufacturing operations
- Key Enterprise Applications:
 - Oracle E-Business Suite
 - Oracle Content Services





Business Requirement

- Automate document management workflow
- Archive older document versions
- Provide Suppliers with latest version of drawings

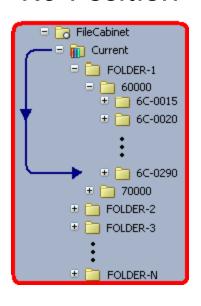
contd...



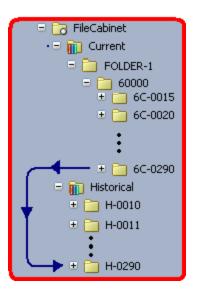


Business Requirement

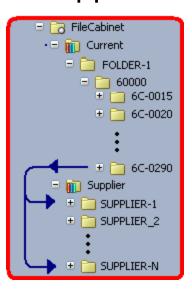
Re-Position



Archive



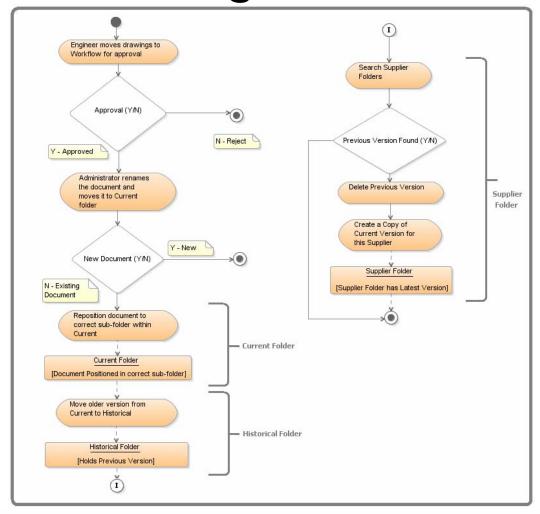
Supplier







Document Management Workflow







Solution using Oracle SOA/BPEL

- OCS-AQ integration
- AQ Adapter in BPEL listens to AQ
- Instantiates BPEL process
- BPEL Process interacts with ContentDB through OCS Web Services





Brief Introduction to BPEL

- XML based Orchestration Language
- Standards based loosely-coupled integration
- BPEL PM Component of SOA Suite
- Design BPEL processes using JDeveloper
- Deploy processes to BPEL PM





BPEL Terminologies

- Partner-Links WebService interaction point
- WSDL file WebService specifications
- Adapters Facilitate interaction with external entities
 - DB Adapter
 - AQ Adapter
 - EBS Adapter Business Events, Concurrent Programs
 - Other Third-Party adapters for specific applications







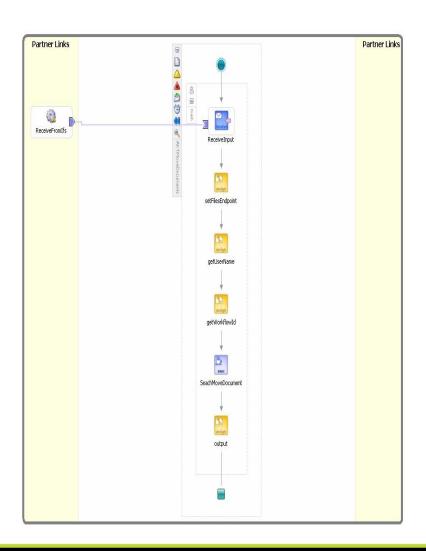
BPEL Process

```
<partnerLinks>
13
       <partnerLink myRole="Dequeue_role" name="ReceiveFromIfs" partnerRole="Dequ</pre>
     </partnerLinks><!--</pre>
15
16
       <wariable name="ReceiveInputVariable" messageType="nsl:IFSQUEUEMESSAGE_msg</pre>
17
       <variable name="filesendpoint" type="ns3:string"/>
18
       <variable name="connectasuser" type="ns3:string"/>
       <variable name="workflowid" type="ns3:string"/>
19
20
       <variable name="filename" type="ns3:string"/>
21
       <variable name="outputinfo" type="ns3:string"/>
22
     23
       sequence name="main">

creceive name="Rec i en not contient by R content on Ifs" portType="nsl:De
<assign name="stalkship">
<assign name="stalkship">
<assign name="stalkship"</a>

24
25
26
27
           <to variable="filesendplint"
28
29
30
31
       <assign name="getUserName">
32
33
           <from variable="ReceiveInputVariable" part="IFSOUEUEMESSAGE" guery="/n</pre>
34
           <to variable="connectasuser"/>
35
         </copy>
36
       </assign>
37
       <assign name="getWorkflowId">
38
39
           <from variable="ReceiveInputVariable" part="IFSQUEUEMESSAGE" query="/n</pre>
40
           <to variable="workflowid"/>
41
```

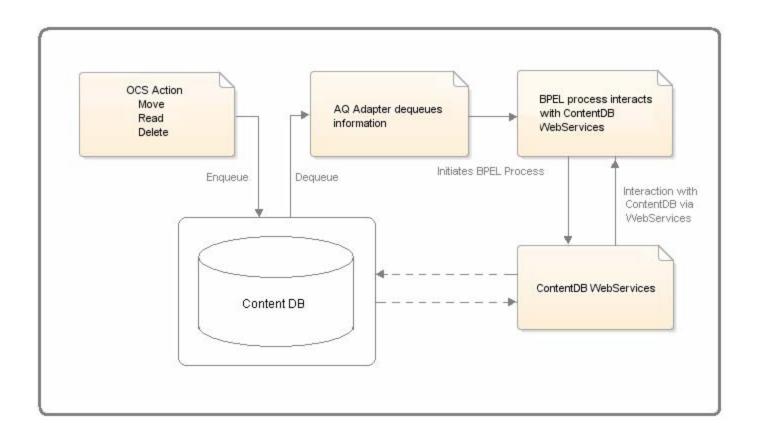








Technical Architecture







OCS Web Service APIs

- File/Folder operations exposed via manager interfaces
- Sample Manager Interfaces
 - CommonManager
 - FileManager
 - LockManager
 - TrashManager ...





Integrating Oracle BOM with OCS

- Objective: Generate Technical Publications for BOM assembly in Oracle and link it with drawings from OCS
- Component drawings/images extracted into separate directory
- Publication Process
 - Explode BOM structure
 - Filter components based on validation rules
 - Search and extract drawings from ContentDB repository
 - Generate HTML Component Catalog







Project Timelines

- Design, Implementation and Testing completed in 2 months
- Project went live in December 07





Thank You!





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A&P

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