

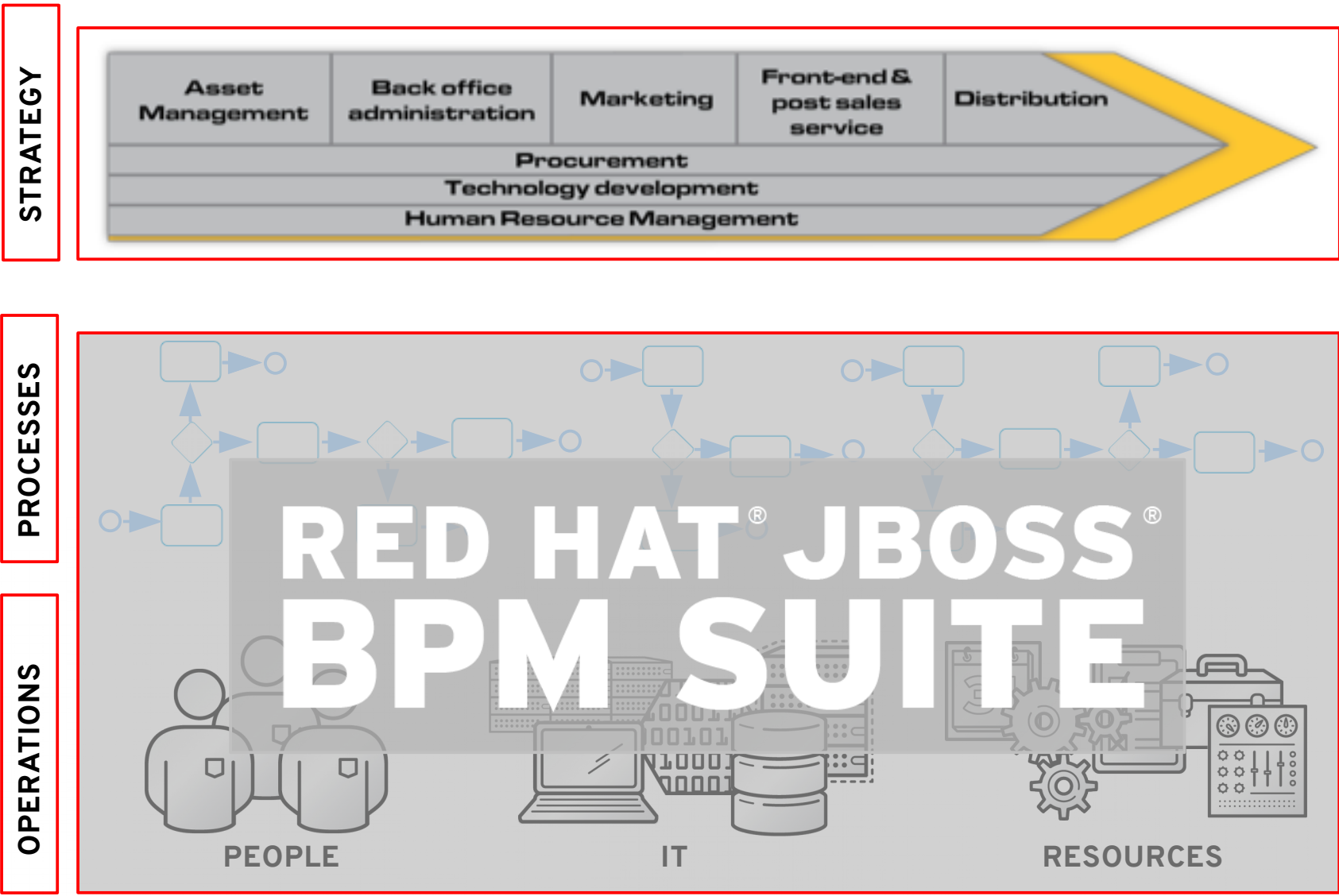


Build the Enlightened Enterprise

An Overview of Modern BPM Data Integration
With the JBoss BPM Travel Agency Demo

Powered by JBoss Enterprise Middleware -
Red Hat JBoss BPM Suite

JBoss Middleware becomes strategic



Value Proposition



Automate
business operations
with intelligent
decision support



Optimize
business operations
with real-time BAM, analytics,
simulation and recommendation



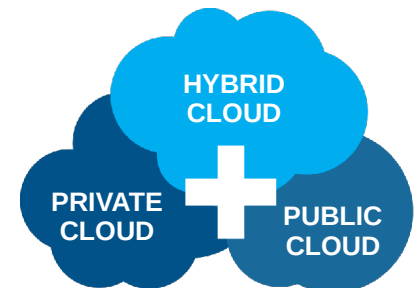
Accelerate
application development
with model-driven
design and integration



Empower
business users to
take control of operations

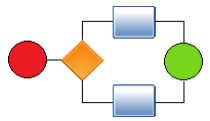


Collaborative working
during the entire process life cycle
and beyond the Enterprise



Deploy
in the Cloud
with BPM PaaS

Capabilities Overview



Processes

Create and deploy enterprise processes and applications through a model-driven composition environment and execution platform.



Services

Integrate and interoperate your existing enterprise systems and web services in your business processes using JBoss SOA Platform and JBoss Fuse modern ESB.



Rules

JBoss BRMS is included in JBoss BPM Suite to support the definition, management and execution of business rules by Business and IT users.



Data

Data modeling tool that also enables participants to manipulate and manage data entities within running processes.



Events

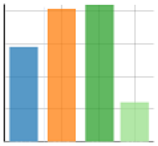
Handle events as first class citizens of the platform, dedicating an independent module to Manage Complex Event Processing (CEP).



Forms

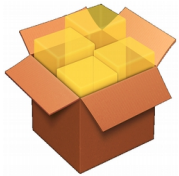
Forms modeling tool to build dynamic and interactive web forms using using a WYSIWYG drag-and-drop interface.

Capabilities Overview



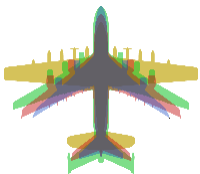
Analytics

Build dashboards that deliver real-time business activity monitoring (BAM) and reporting with personalized information, measure and analyze key indicators to track process performance to make quick and effective decisions.



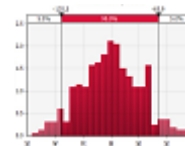
Assets

Pluggable multi-dimensional repository for knowledge representation of processes, rules, data and services to facilitate reusability, change management, governance and compliancy.



Execution

Integrated execution environment with separates engines for processes, tasks, events and rules. Deploy in different application servers, on-premise or in cloud.



Simulation

Establish, execute and analyse different simulation scenarios. Identify bottlenecks. Decide what are the optimal parameters and thresholds for your processes. Make effective recommendations.



Workspace

The execution environment provides a Rich User Interface (RUI) or Portal that centralize user participation, attending alerts and triggers, and notifying actions to each role across the entire process lifecycle.

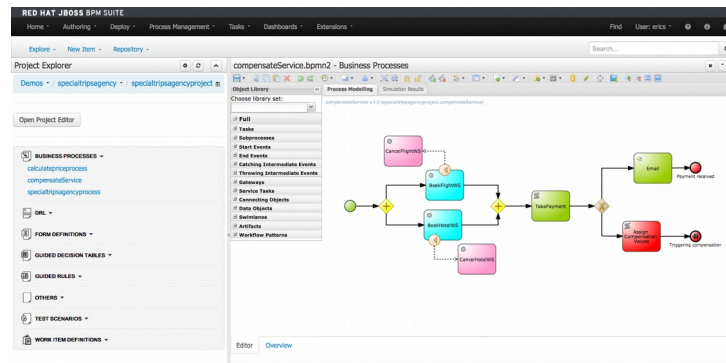


Development

JBoss Workbench IDE lets developers easily extend, build and integrate process-based applications.

Full BPM lifecycle support

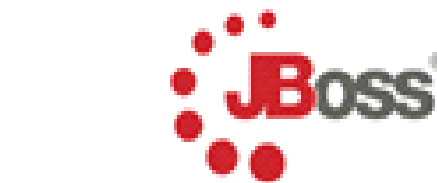
Modeling & Simulation



Integration & Deployment



Monitoring & Analysis



Continuous Improvement

[illegible]

Execution & Management



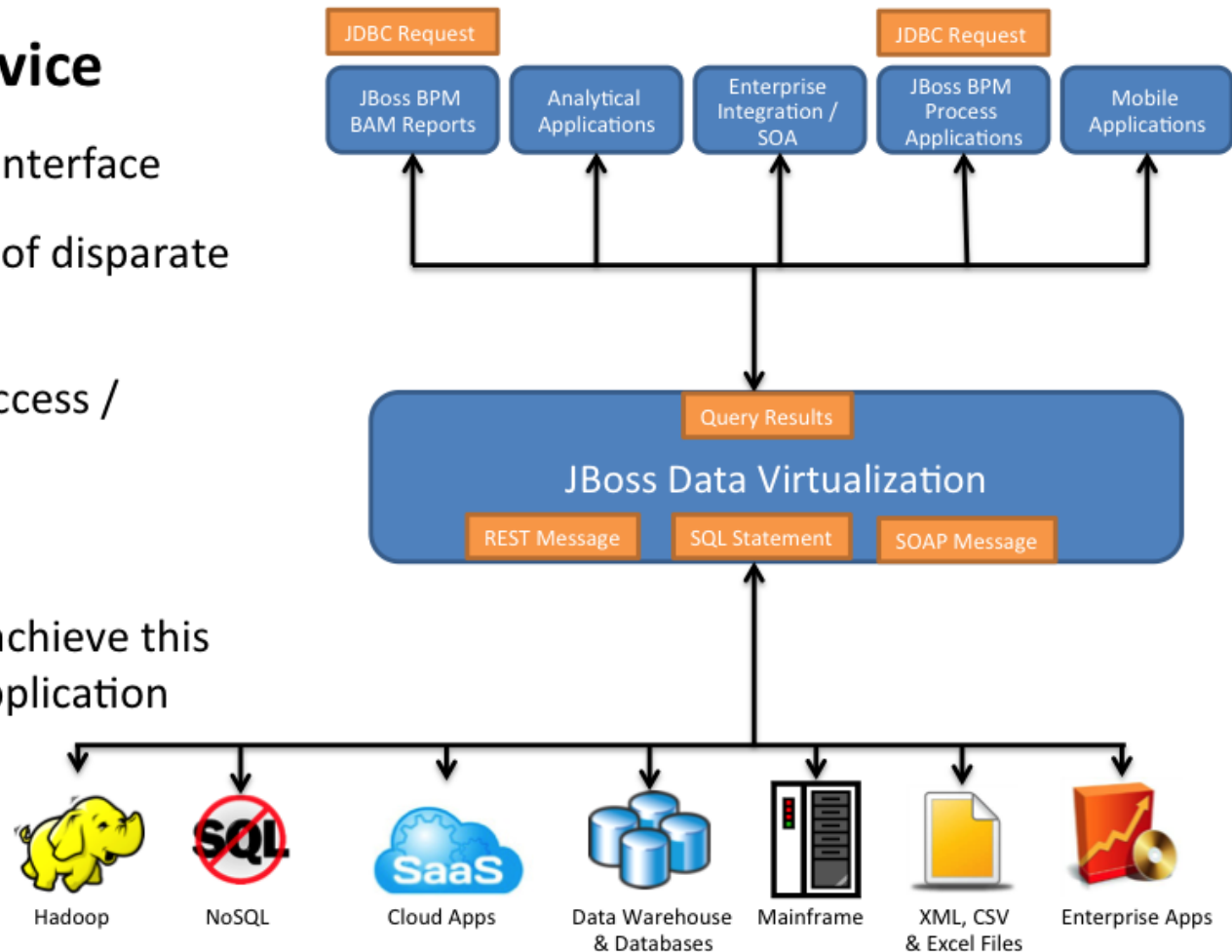
The screenshot displays the Form Builder interface. On the left is a sidebar with a list of form elements: Form data origin, Add fields by origin, Add fields by type (selected), Form properties, and Save. Below this is a vertical list of available form elements: Calculated text, HTML label, Separator, Short text, E-mail, Postal code, Bank Account, IBAN, Phone Number, Decimal, Integer, Long Integer, Long text, E-Mail, Timestamp, Short date, CheckBox, Multi language text, Multi language long text, Rich text, Multilanguage text with format, and Link. The main workspace shows a form layout with fields for Customer ID, Company Name, Last Name, First Name, Address, Address 2, City, State, ZIP, Phone Number, Mobile Number, Fax Number, E-Mail, Notes, and a Phone Number field. On the right is the Properties panel for the selected 'Address 2' field, showing options for Field type (Long text), Field name (970218088), Label, Error message, Label css class, Label css style, Help text, Style class, Css style, HTML container, Size, Height, Max length, and checkboxes for Required, Disabled, and Read only.

DESIRED SOLUTION - *REALTIME DATA INTEGRATION*

Data as a Service

- Standard based interface
- Contextual view of disparate source data
- Single point of access / integration
- Reuse of Data
- But you cannot achieve this by writing more application code...

*Data Sources
Siloed & Complex*



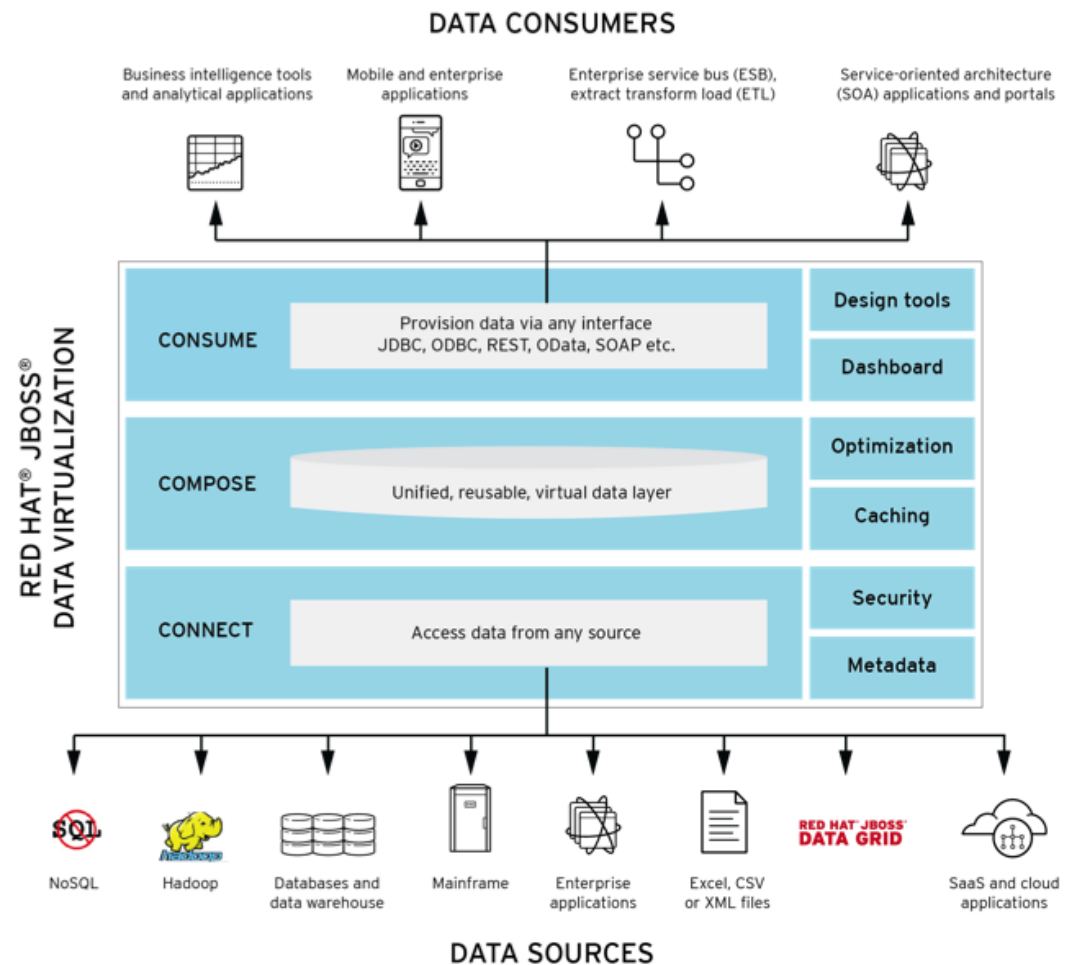
JBOSS DATA VIRTUALIZATION

DATA INTEGRATION & DATA AS A SERVICE SOLUTION

Data Virtualization sits in front of multiple data sources and

- ✓ allows them to be treated as a single source
- ✓ delivering the desired data
- ✓ in the required form
- ✓ at the right time
- ✓ to any application or user.

**THINK VIRTUAL
MACHINE FOR DATA**

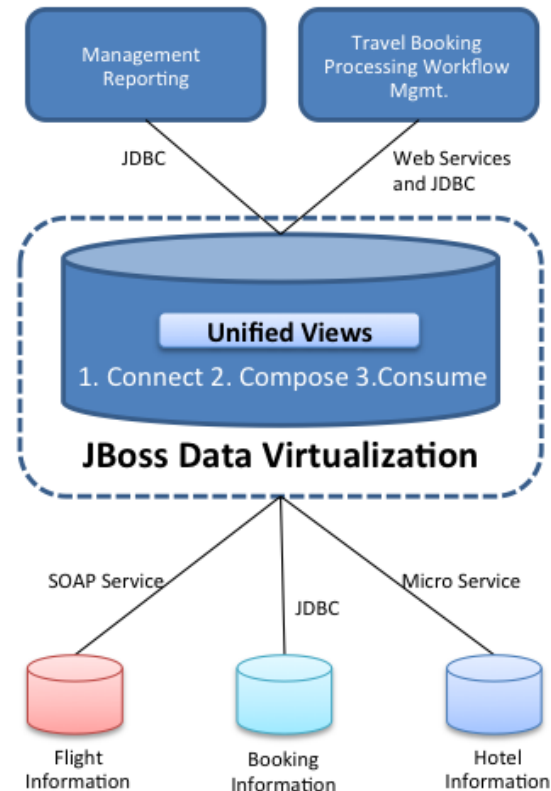


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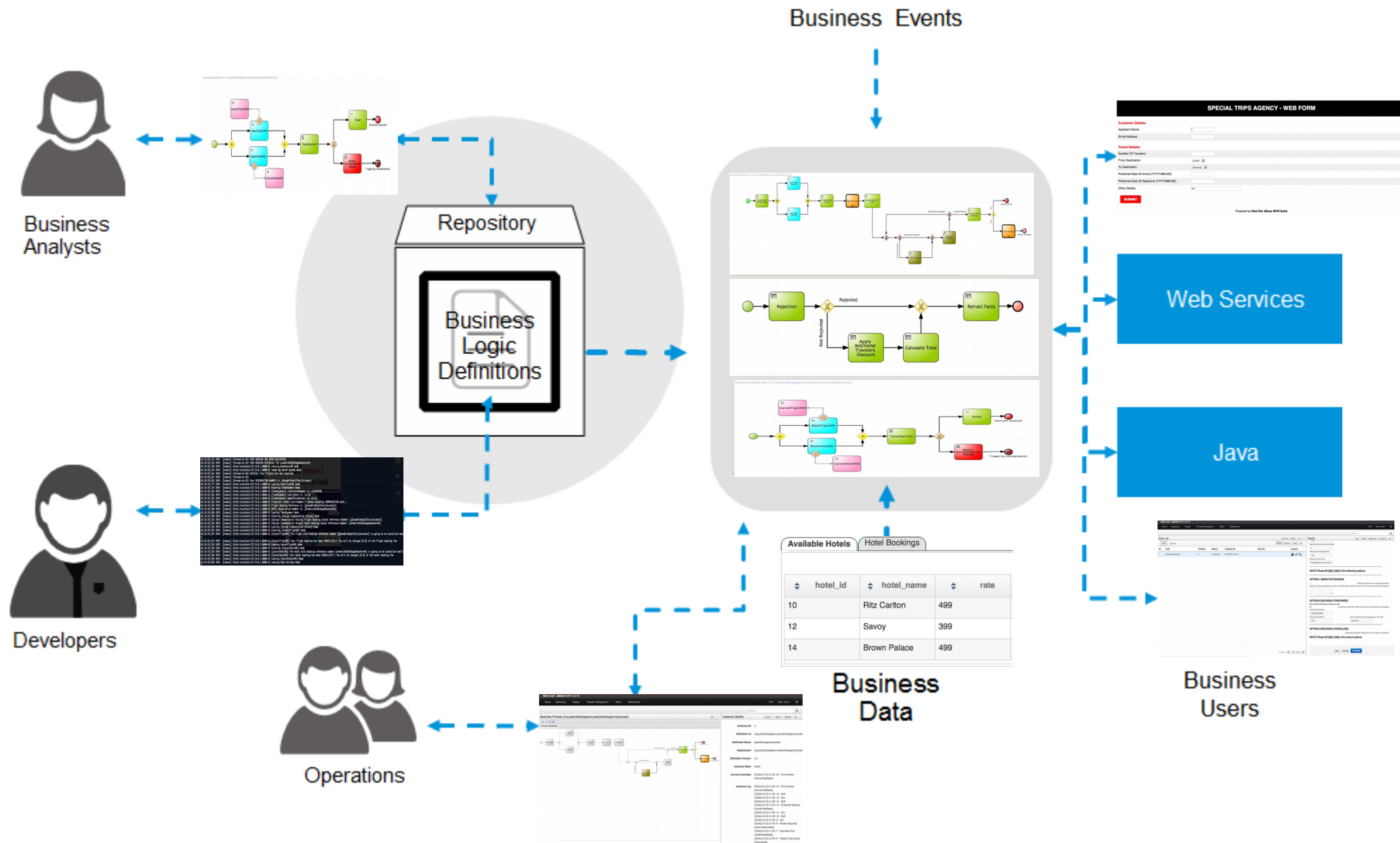
JBoss BPM Travel Agency

Single View of Bookings Processing

- Situation / Needs:
 - Management seeks visibility and control, while bookings operations needs to run smoothly through acquisition
 - Bookings data now spread across multiple databases/systems
- Solution:
 - Consolidate all data into “virtual data mart”
 - Transformation of data differences
 - Provide real-time data access to management portal and travel bookings workflow system
- Benefits:
 - Management get timely information on bookings and operating metrics
 - Travel agents receive all the information to process bookings faster
 - Sensitive data preserved until acquisition integration

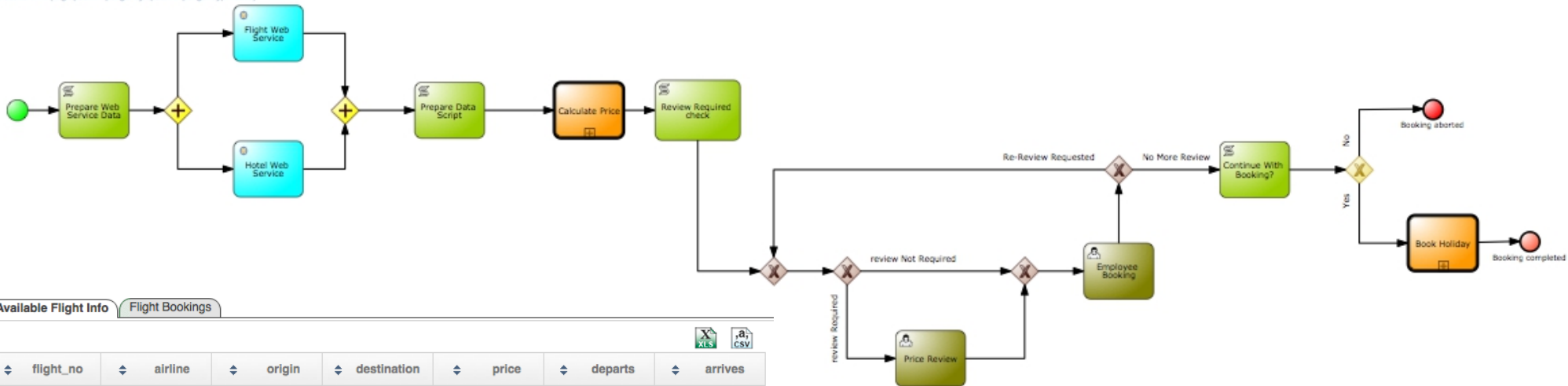


Components in JBoss BPM Travel Agency project



JBoss BPM Suite & JBoss DV Travel Agency Demo

specialtripsagencyprocess v.1.0 (org.specialtripsagency.specialtripsagencyprocess)



Available Flight Info

flight_no	airline	origin	destination	price	departs	arrives
880	United	Denver	NYC	199	06/23/15 8:00 AM	06/23/15 10:00 AM
881	United	NYC	Denver	199		
1621	American	London	Edinburgh	199		
1622	American	Edinburgh	London	199		
1800	Delta	London	NYC	1,199		
1801	Delta	NYC	London	1,199		
1900	Virgin	Edinburgh	NYC	1,099		
1901	Virgin	NYC	Edinburgh	1,099		
600	BA	Edinburgh	Denver	1,599		
601	BA	Denver	Edinburgh	1,599		

Available Flight Info

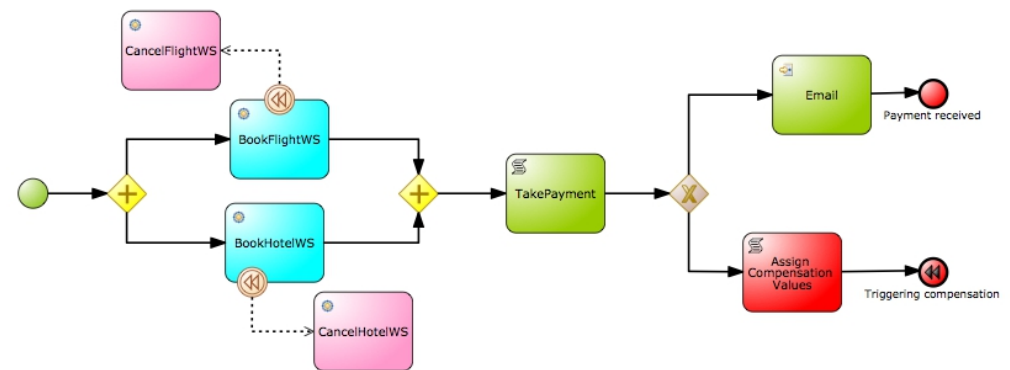
booking_ref_num	airline	flight_no	origin	destination	price	departs	arrives
upekjoam7o055pq	United	881	NYC	Denver	199	06/10/15 12:00 AM	06/10/15 12:00 AM

Available Hotels

booking_ref_num	hotel_id	hotel_name	city	rate	arrive	depart
p4kj7mbhulv4cfoo1	14	Glenwood Springs	Denver	359	06/7/15 12:00 AM	06/10/15 12:00 AM

Available Hotels

hotel_id	hotel_name	rate	city
10	Ritz Carlton	499	NYC
12	Savoy	399	London
14	Glenwood Springs	359	Denver
16	The Scotsman	499	Edinburgh





Build the Enlightened Enterprise

For more information, please visit
<http://www.jboss.org/products>

Demo project available at:
<http://github.com/jbossemocentral/bpms-dv-travel-agency-integration-demo>

