A DESIGN MODEL FOR RULE & PROCESS DRIVEN SOLUTIONS

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Slides Online

@ https://redhat.slides.com/jholmes/summit-2016-disco

(mobile friendly)
EXECUTIVE SUMMARY

In many leading companies, IT must provide tools to help the business respond to competition, comply with industry regulations, and engage customers. IT is expected to provide solutions that are high quality, flexible enough for rapid, frequent change, and available at predictable—preferably low—cost.

Custom software development and business automation are two ways to give business stakeholders the solutions they want, when they want them. But the two approaches have different benefits and drawbacks. Software development is an engineering discipline with rigorous, but historically slow, processes. Business automation reduces time to market by letting non-technical stakeholders codify business logic, resulting in increased risk.
RED HAT CONSULTING DISCOVERY SESSION: BUSINESS AUTOMATION

- Engage a business unit in a strategic planning activity, including owners of business rules and processes, IT application development and delivery, and IT operations
- Complete a collaborative session in 4-8 hours to align on business goals and objectives using the Business Automation solution
- Gain a roadmap for the outlined solution

A STRATEGIC PLANNING ACTIVITY FOR BUSINESS AUTOMATION

A Red Hat® Consulting Discovery Session is a visual and collaborative strategic planning activity that develops a mutual understanding of your organization’s goals, determines which actors impact these goals, and identifies the business automation practices and technologies that will help you achieve these goals.

During the session, Red Hat consultants facilitate a conversation that leads to the creation of an impact map (Figure 1) showing a path to the desired state.

Solution Delivery Framework

DISCOVER / DESIGN / DEPLOY

ITERATE

ENABLE
What Is A Discovery Session?

• **Visualize assumptions** by clearly delineating known and unknown factors, providing a broader view for decision makers.

• **Collaborate** by completing an interactive planning and team-building exercise.

• **Gain insight quickly** by providing in **4-8 hours** what may take weeks for other approaches to deliver.
What Is In It For You?

- A **delivery roadmap** for the solution outlined in the Discovery Session.
- A list of **key methods** that will need to be introduced or enhanced as part of the solution.
- A **conceptual architecture** using proven design patterns for business automation with Red Hat JBoss® BRMS and Red Hat JBoss BPM Suite.
FRAMING THE OPPORTUNITY

For more details on this approach see: https://www.impactmapping.org/
BXMS IMPACT MAP

Goal → Actor → Impact → Deliverable

- Reduce Cost
- Avoid Cost
- Generate Revenue
- Protect Revenue
BXMS IMPACT MAP

- Reduce Cost
- Avoid Cost
- Generate Revenue
- Protect Revenue

Subject Matter Experts

Goal

Actor

Impact

Deliverable

Increase Visibility

Create/modify business logic

Deploy logic without IT

Repository of rules and processes

Increase Agility
BXMS IMPACT MAP

- Reduce Cost
- Avoid Cost
- Generate Revenue
- Protect Revenue

Goal:

Actor:

Impact:
- Increase Visibility
- Increase Agility
- Increase Consistency

Deliverable:
- Repository of rules and processes
- Create/modify business logic
- Deploy logic without IT
- Use SME defined business logic in applications

Subject Matter Experts

Application Developers
WHAT ABOUT...?

Goal
- Reduce Cost
- Avoid Cost
- Generate Revenue
- Protect Revenue

Actor
- Subject Matter Experts
- Application Developers

Impact
- Increase Visibility
- Increase Agility
- Increase Consistency

Deliverable
- Agile
- DevOps
- Microservices
- CI / CD
Let’s not throw the baby out with the bath water.
Goal: Rapidly deliver high quality software at a low, predictable cost.

Business Automation:
- Collaborative methods & tools for IT, product owners, knowledge workers, etc.
- Visually model processes & decisions
- Automate

CI / CD / DevOps:
- Collaborative methods & tools for Developers, Administrator, Info Sec etc.
- Visually model delivery pipelines
- Automate
THE DESIGN MODEL
BPM AND DEVOPS SHARE FOUNDING FATHERS

- WALTER A. SHEWHART
  - STATISTICAL PROCESS CONTROL
- W. EDWARDS DEMING
  - LEAN MANUFACTURING & 14 POINTS (OUT OF CRISIS)
- JACK WELCH
  - SIX SIGMA & QUALITY MOVEMENT
- PETER DRUCKER
  - DECENTRALIZED DECISION MAKING & THE KNOWLEDGE WORKER
- MELVIN CONWAY
  - CONWAY'S LAW
ARCHITECTURE COMPONENTS

MODEL

VERSION

BUILD

STORE

DEPLOY

EXECUTE
### IT'S LIKE A PRIX-FIXE MENU

<table>
<thead>
<tr>
<th>Model Business Logic</th>
<th>Version Artifacts</th>
<th>Build Package</th>
<th>Store Package</th>
<th>Deploy Package</th>
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WHY IS RED HAT DIFFERENT?

MODEL BUSINESS LOGIC
- Guided editing
- IDE
- Document-based generation
- Spreadsheets

VERSION ARTIFACTS
- Central version control
- Standalone version control

BUILD PACKAGE
- Central build server
- Standalone build server

STORE PACKAGE
- Central binary repository
- Standalone binary repository

DEPLOY PACKAGE
- Management console
- Application resources
- Push runtime
- Polling runtime

EXECUTE BUSINESS LOGIC
- Short-lived embedded sessions
- Short-lived remote sessions
- Long-lived embedded sessions
- Long-lived remote sessions
PRODUCTION EXAMPLES

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## EXAMPLE #1

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MODEL BUSINESS LOGIC
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EXAMPLE #3

MODEL BUSINESS LOGIC
- Guided editing
- Document-based generation

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EXECUTE BUSINESS LOGIC
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EXAMPLE #4

**MODEL BUSINESS LOGIC**
- Guided editing
- IDE
- Document-based generation
- Spreadsheets

**VERSION ARTIFACTS**
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**BUILD PACKAGE**
- Central build server
- Standalone build server

**STORE PACKAGE**
- Central binary repository
- Standalone binary repository

**DEPLOY PACKAGE**
- Management console
- Application resources
- Push runtime
- Polling runtime

**EXECUTE BUSINESS LOGIC**
- Short-lived embedded sessions
- Short-lived remote sessions
- Long-lived embedded sessions
- Long-lived remote sessions

HA CEP preso: [https://access.redhat.com/videos/875833](https://access.redhat.com/videos/875833)
## EXAMPLE #5

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