

RED HAT
SUMMIT

RED HAT JBOSS BPM SUITE PRIMER: CAPABILITIES, VISION AND ROADMAP

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May 2, 2017

RED HAT'S ROADMAP PROCESS AND DECISION MANAGEMENT

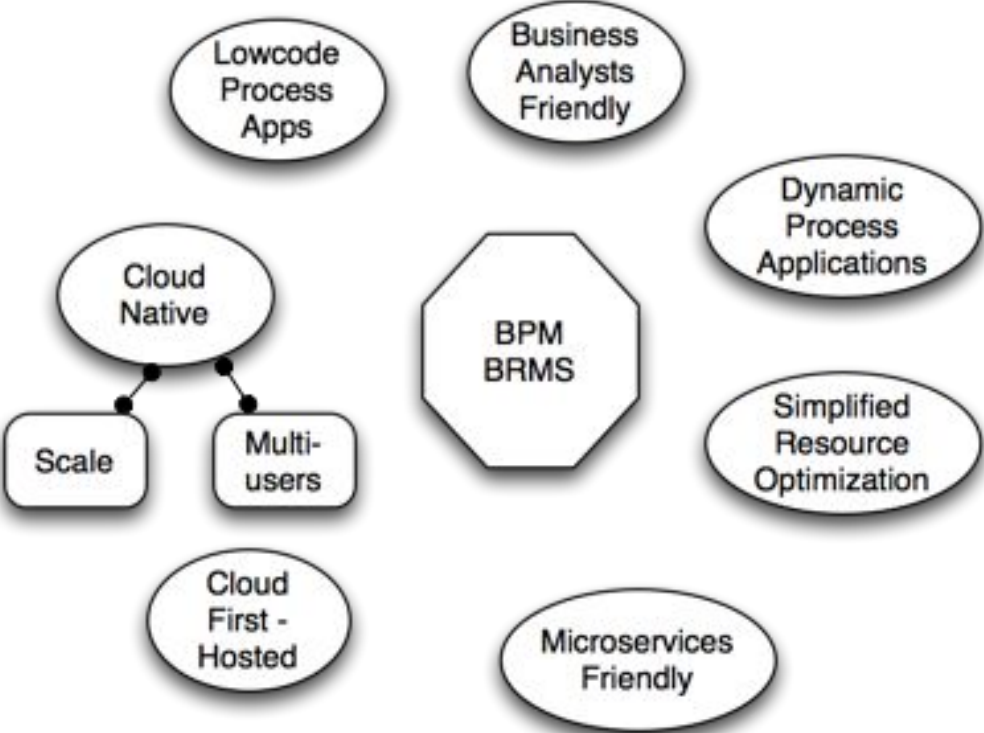
Year in Review

- BPM and BRMS 6.4 Release
- Cloud enabled - Intelligent Process Server and Realtime Decision Server
- EE 7 Support
- Integrated Red Hat SSO
- Enhanced User experience
- Enriched APIs
- Improved stability and Several RFEs

Vision Refresh

- Comprehensive Productivity Tools: Appealing end to end BRMS and BPMS
Core capabilities that support developer agility
- Low code / No code Platform: Empower citizen developers to build simple to moderately complex business applications faster and efficiently
- Dynamic Case Management: Comprehensive set of tools to build and manage dynamic case management solutions
- Appcelerators: Industry specific templates and solutions
- Simplify Planner solution development
- Expand decision management solution development tools
- Cloud based business application development and deployment

Roadmap in works



Agenda - Backend

- Execution Server
- jBPM
 - Case Management
- Drools
 - DMN, OOPath, Units, Parallel Scaling
- OptaPlanner
 - Performance
- Cloud Ready

Agenda - Frontend

- AppFormer
 - Workbench, Data Management, Data Modelling, Forms, Pages,
- DashBuilder
- jBPM
 - BPMN Designer, Case Modeller
- Drools
 - Decision Tables

Backend

Execution Server

- Unified Execution Server - Drools, jBPM and OptaPlanner
 - Previously Separate impl for Drools and jBPM
- Improved UI
 - CI/CD support
- Monitoring and Metrics
- Cloud First on OSE

Provisioning

KIE Workbench

Home ▾ Authoring ▾ Deploy ▾ Process Management ▾ Tasks Dashboards ▾ Extensions ▾

Search

SERVER TEMPLATES

+ New Server Template

myserver

Capabilities:

- Rule
- Process
- Planning

KIE CONTAINERS

+ Add Container

org.jbpm:HR:1.5

REMOTE SERVERS

myserver@localhost:8230

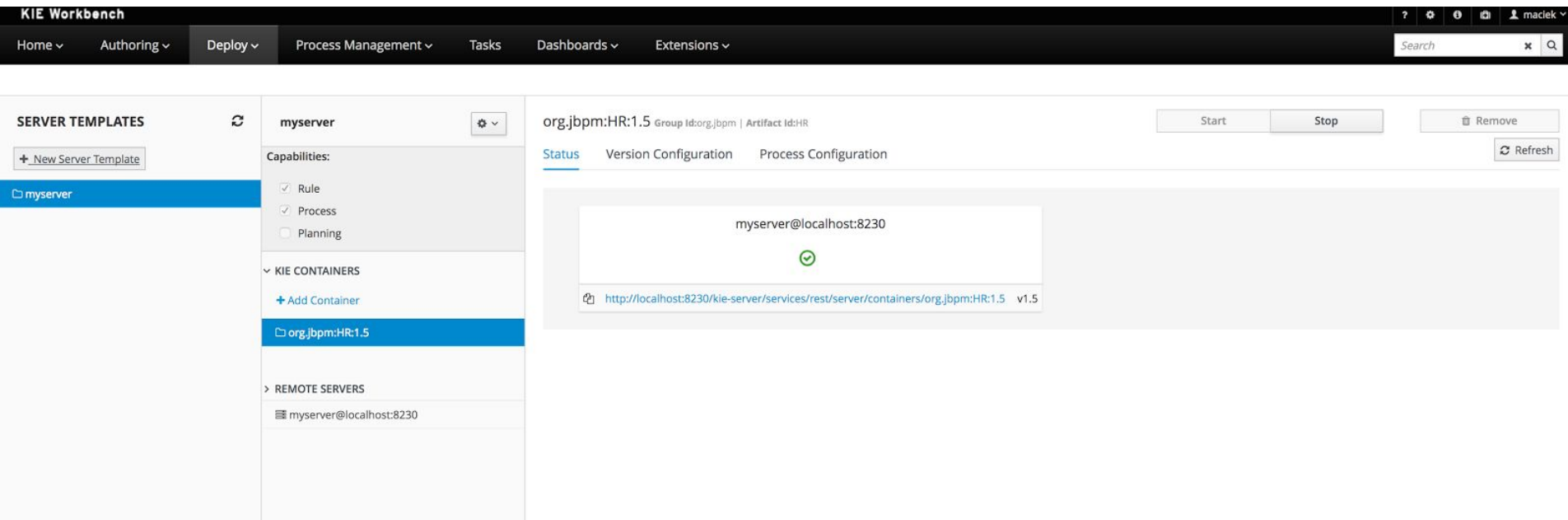
org.jbpm:HR:1.5 Group Id:org.jbpm | Artifact Id:HR

Status Version Configuration Process Configuration

Start Stop Remove Refresh

myserver@localhost:8230

<http://localhost:8230/kie-server/services/rest/server/containers/org.jbpm:HR:1.5> v1.5



Pipelines

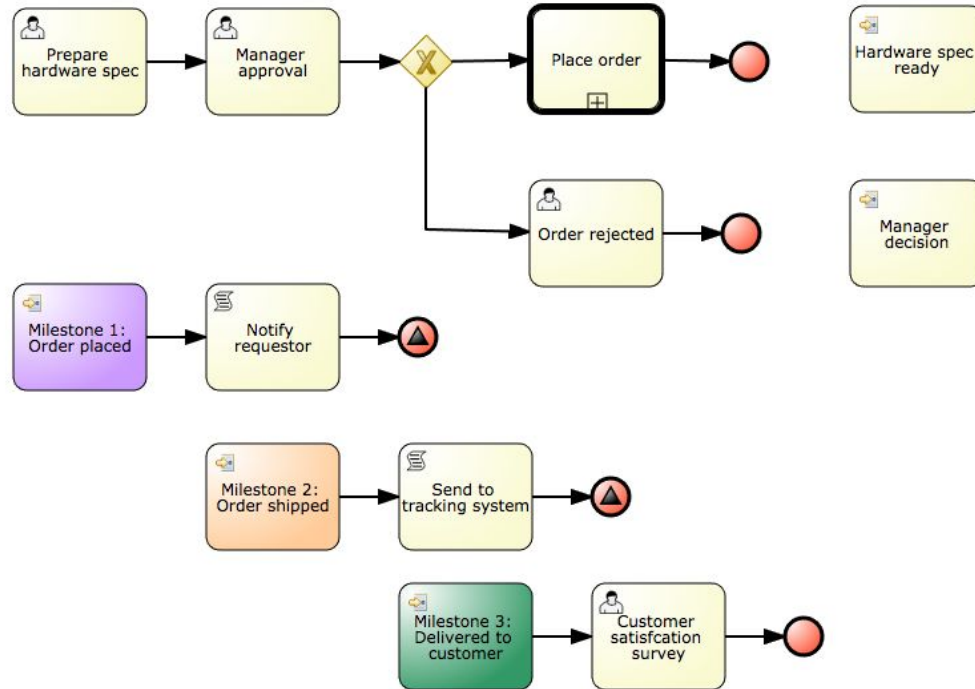
The screenshot displays the Drools Workbench interface with the following components:

- Header:** "Drools Workbench" with navigation tabs for Home, Authoring, Deploy, Lifecycle, Tasks, and Extensions. A search bar and user profile (admin) are on the right.
- Left Panel (PROVIDER TYPES):** Lists "OpenShift" and "WildFly 10". Under "OpenShift", "OpenShiftVM" is selected.
- Main Panel (OpenShiftVM):** Shows a pipeline named "new-user-app" (Created on). The pipeline is titled "OpenShift Deploy" and consists of five stages:
 - Deploy Trigger via UI
 - Git Source Stage
 - Configuring Maven Project
 - Maven Docker Build Stage
 - Provision new Runtime in Kubernetes
- Right Panel:** Contains "Deploy", "Refresh", and "Remove" buttons.

jBPM

- Pluggable Task Assignment
- Smart Router
- Case Modeller

Order for IT hardware v.1.0 (itorders.orderhardware)



jBPM - Case Management

KIE Workbench maciek

Order for IT hardware (maciek) No Stages found Complete

Overview

Case Details

Description
Order for IT hardware

Status
Open

Owner
maciek

Started
06/04/2017

Actions

Available 1	In progress 4	Completed 0
New user task Dynamic	Prepare hardware spec 06/04/2017	No actions found
New process task Dynamic	Milestone 1: Order placed 06/04/2017	
Prepare hardware spec Available in: Case	Hardware spec ready 06/04/2017	
Milestone 1: Order placed Available in: Case	Manager decision 06/04/2017	

Milestones

- Hardware spec ready
- Manager decision
- Milestone 1: Order placed
- Milestone 2: Order shipped
- Milestone 3: Delivered to customer

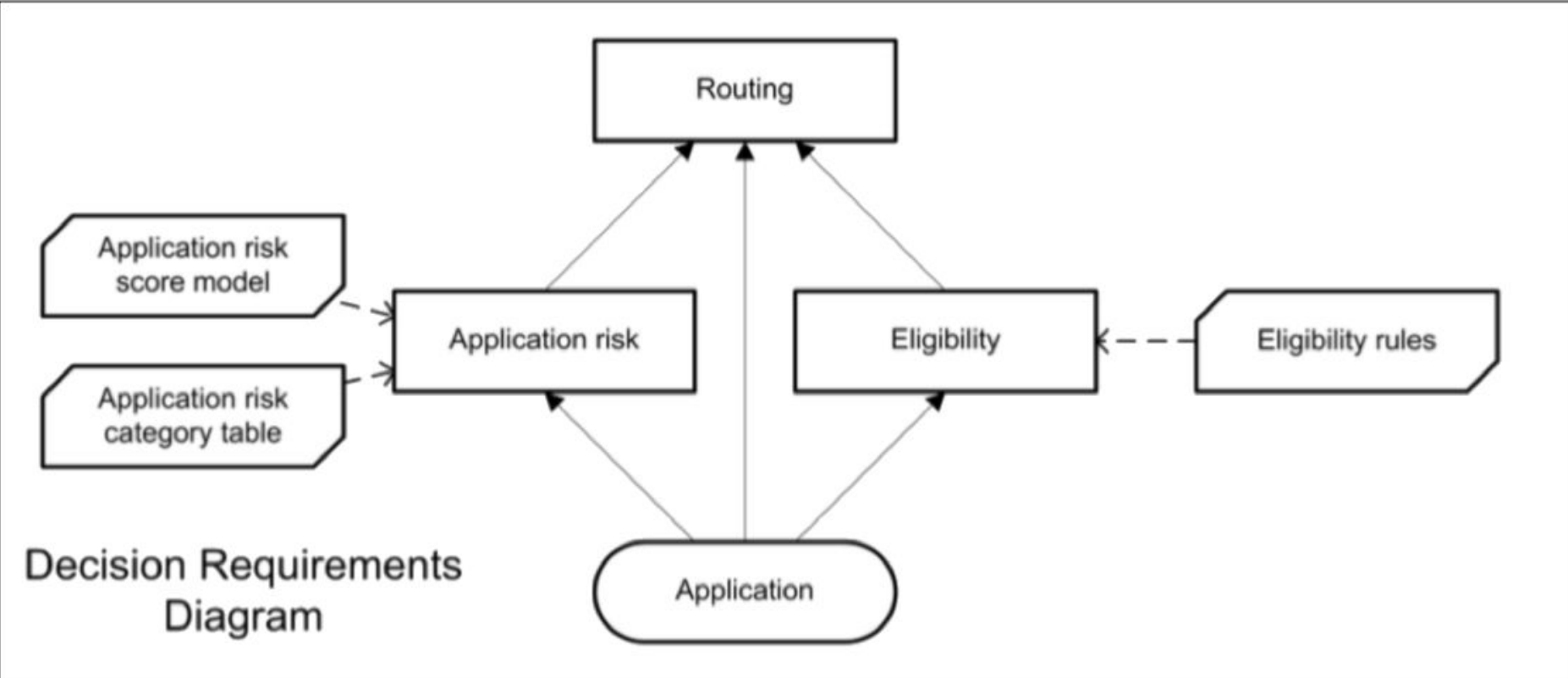
Comments

No Comments found

Role Assignments

- maciek owner
- HR manager
- PM supplier

Drools - DMN



DMN

Post-bureau risk category table				
U	Existing Customer	Application Risk Score	Credit Score	Post-Bureau Risk Category
1	false	< 120	< 590	HIGH
2			[590..610]	MEDIUM
3			> 610	LOW
4		[120..130]	< 600	HIGH
5			[600..625]	MEDIUM
6			> 625	LOW
7			> 130	-
8	true	<= 100	< 580	HIGH
9			[580..600]	MEDIUM
10			> 600	LOW
11		> 100	< 590	HIGH
12			[590..615]	MEDIUM
13			> 615	LOW

Drools - Units

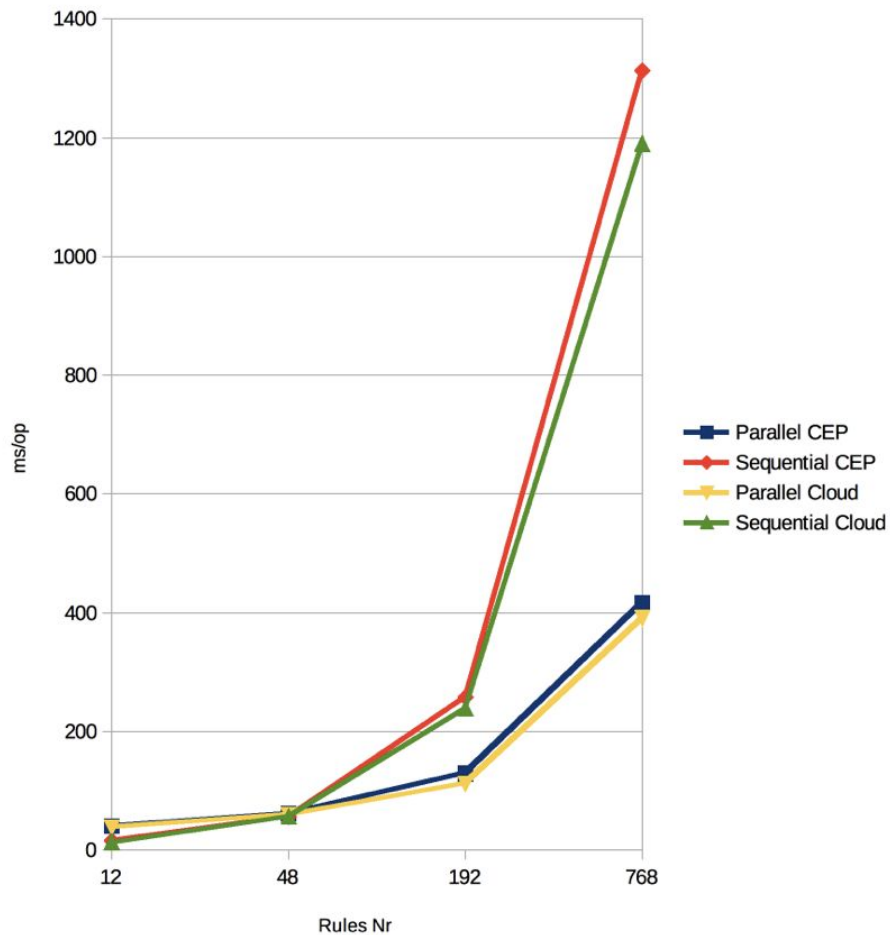
- Decouple Working Memory and Rules
- DataSources now standalone
- A unit can have 1..n DataSources, passed at Unit construction time
- OOPath Statements and Patterns are now 'from' DataSources

```
DataSource<Person> typedDataSource;  
DataSource<? extends Object> untypedDataSource;  
----  
rule MyRule when  
    Person p : /typedDataSource[age > 30]  
    var r : /untypedDataSource#Restaurant[location == p.location]  
then  
    System.out.println( p.name + " " r.name );  
end
```


Drools - OOPath

```
rule R when
  /men/wife/children[age > 10]/toys
then
  list.add( $child.getName() );
end
```

Drools - Scaling



Cloud First

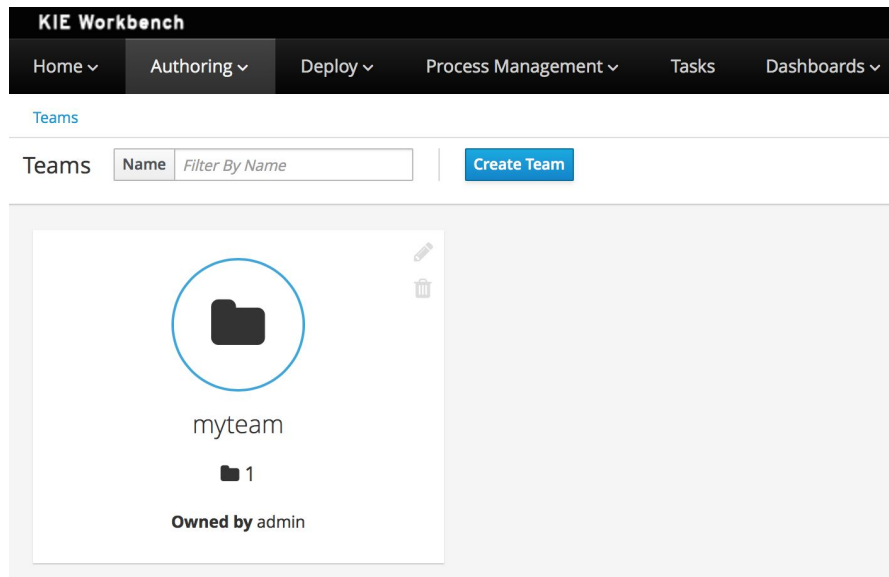
- Horizontal Scaling Execution Servers
- Horizontal Scaling git/maven workspaces

OptaPlanner

- Multi Partition Search
- Smart Inbox (jBPM integration)
- Project Templates for domains
 - Scheduling, Routing

Frontend

AppFormer-Workbench





KIE Workbench

Home ▾ Authoring ▾ Deploy ▾ Process Management ▾ Tasks Dashboards ▾

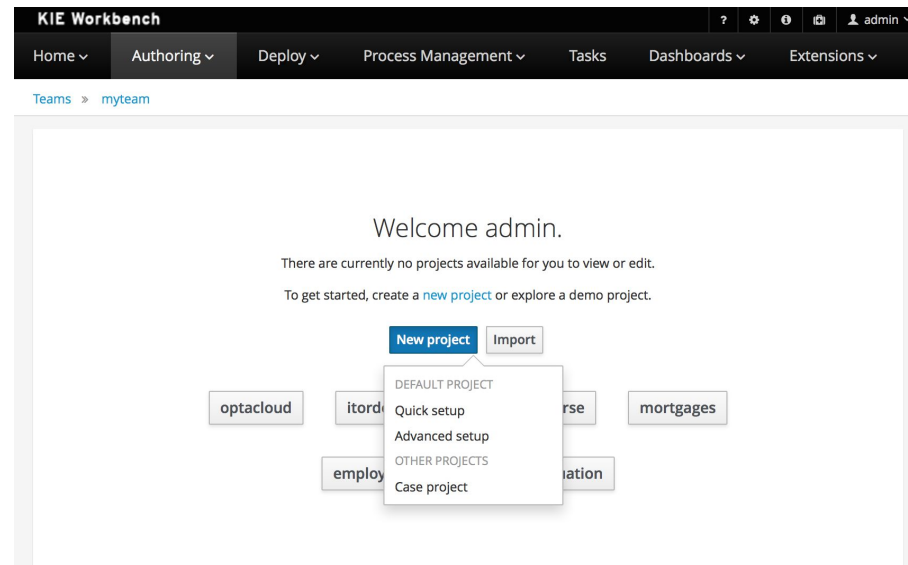
Teams

Teams *Filter By Name* [Create Team](#)

 myteam

 1

Owned by admin



KIE Workbench

Home ▾ Authoring ▾ Deploy ▾ Process Management ▾ Tasks Dashboards ▾ Extensions ▾

Teams > myteam

Welcome admin.

There are currently no projects available for you to view or edit.

To get started, create a [new project](#) or explore a demo project.

[New project](#) [Import](#)

- DEFAULT PROJECT
 - Quick setup
 - Advanced setup
- OTHER PROJECTS
 - Case project

optacloud itordse mortgages employation

AppFormer - Workbench

KIE Workbench

Home ▾ Authoring ▾ Deploy ▾ Process Management ▾ Tasks Dashboards ▾ Extensions ▾

Teams » myteam

Welcome admin.

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 - Case project

optacloud itord rse mortgages employ ation

KIE Workbench


Home ▾ Authoring ▾ Deploy ▾ Process Management ▾ Tasks Dashboards ▾

Teams » myteam

Projects

Name

[New project](#) [Import](#) [Import Example](#)

 **test1-name**

AppFormer - Workbench

KIE Workbench

Home ▾ Authoring ▾ Deploy ▾ Process Management ▾ Tasks Dashboards ▾ Extensions ▾

Teams » myteam » test1-name

test1-name

Settings Compile Build & Deploy Messages

Assets [Create New Asset](#)

Let's get started.

There is currently nothing in this project.

What do you want to make?

Business Process

Guided Decision Table

Data Object

[browse more types](#)

KIE Workbench

Home ▾ Authoring ▾ Deploy ▾ Process Management ▾ Tasks Dashboards ▾ Extensions ▾

Teams » myteam » test1-name

test1-name

Settings Compile Build & Deploy Messages

Assets Filter By Name [Create New Asset](#)

	myrules	DRL	Last modified today	Created today
--	---------	-----	---------------------	---------------

15 per page

1 - 1 < >

Messages

Level	Text	File	Column	Line
○	Build of project 'test1-name' (requested by admin) completed...	-	0	0

AppFormer - Workbench

The screenshot displays the KIE Workbench interface. At the top, the navigation bar includes 'Home', 'Authoring', 'Deploy', 'Process Management', 'Tasks', 'Dashboards', and 'Extensions'. The breadcrumb path is 'Teams > myteam > test1-name > myrules'. The 'Project Explorer' on the left shows a tree structure with a 'com' folder and a 'myrules' folder containing a 'DRL' file. The main editor area is titled 'myrules.drl - DRL' and shows a rule definition in the 'Editor' tab:

```
1 rule GoldRule when
2     Shopper(type=GOLD)
3 then
4     System.out.println("Gold Shopper");
5 end
```

The 'Messages' panel at the bottom shows a table with the following data:

Level	Text	File	Column	Line
ⓘ	Build of project 'test1-na...	-	0	0

AppFormer - Workspaces + Git Flow

AppFormer - Data Management

The screenshot displays the KIE Workbench interface. The top navigation bar includes 'Home', 'Authoring', 'Deploy', 'Process Management', 'Tasks', 'Dashboards', and 'Extensions'. A search bar is located on the right. The main content area is split into two panes. The left pane, titled 'DataSource Explorer', shows a tree view with 'Data sources' and 'Drivers'. The right pane, titled 'AppFormerDB.datasource - Data Source Definition', shows a breadcrumb path 'AppFormerDB > Schemas > public > country' and a table of country data. A mouse cursor is hovering over the 'Uruguay' row in the table.

code	name	capital	currency
NO	Norway	Oslo	NOK
ES	Spain	Madrid	EUR
DE	Germany	Berlin	EUR
PT	Portugal	Lisbon	EUR
FR	France	Paris	EUR
UY	Uruguay	Montevideo	UYU

AppFormer - Data Modelling

The screenshot displays the KIE Workbench interface for data modeling. The top navigation bar includes 'Home', 'Authoring', 'Deploy', 'Process Management', 'Tasks', 'Dashboards', and 'Extensions'. The main workspace is divided into three panels:

- Project Explorer:** Shows a tree view with 'demo' > 'uf-playground' > 'mortgages'. A list of data objects is shown, including 'Applicant', 'Bankruptcy', 'IncomeSource', and 'LoanApplication'.
- Editor:** Displays the 'Applicant' entity with a table of fields and their types. Each field has a 'Delete' button.
- Drools & jBPM:** Shows configuration options for the entity, such as 'TypeSafe', 'ClassReactive', 'PropertyReactive', 'Role', 'Timestamp', 'Duration', 'Expires', and 'Remotable'.

Identifi...	Label	Type	
age		Integer	Delete
applica...		Date	Delete
approv...		Boolean	Delete
creditR...		String	Delete
name		String	Delete

'Applicant'- general properties

Identifier: Applicant
Label:
Description:
Package: org.mortgages
Superclass: java.lang.Object

Messages:

AppFormer - Page/Form Building

Dashbuilder admin

Home Gallery Administration Dashboards

Plugins Explorer Perspective Editor [ExpensesDashboard] Save Delete Rename Copy Tags

PERSPECTIVE PLUGIN

SCREEN PLUGIN

EDITOR PLUGIN

SPLASHSCREEN PLUGIN

DYNAMIC MENU

Expense Report Dashboard

office	amount
Barcelona	2,913.14
Madrid	2,453.36
Brno	4,659.24
Westford	6,094.87
Raleigh	4,970.78
London	4,139.77

Components

- HTML Component
- Displayer Component
- Screen Component

AppFormer - Page/Form Building

The screenshot displays the AppFormer web application interface. At the top, a navigation bar includes a logo, the text "Layoutit! BETA", and several utility buttons: "Edit", "Preview", "Download", "Share", and "Clear". On the right side of the navigation bar, there are links for "Register", "Login", "Hire Us", "Feedback", and "Donate!".

On the left side, a sidebar menu is visible with the following sections:

- + GRID SYSTEM** (with a help icon):
 - 12 (with a drag icon)
 - 6 6 (with a drag icon)
 - 8 4 (with a drag icon)
 - 4 4 4 (with a drag icon)
 - Enter your own
- + BASE CSS** (with a help icon)
- + COMPONENTS** (with a help icon)
- + JAVASCRIPT** (with a help icon)

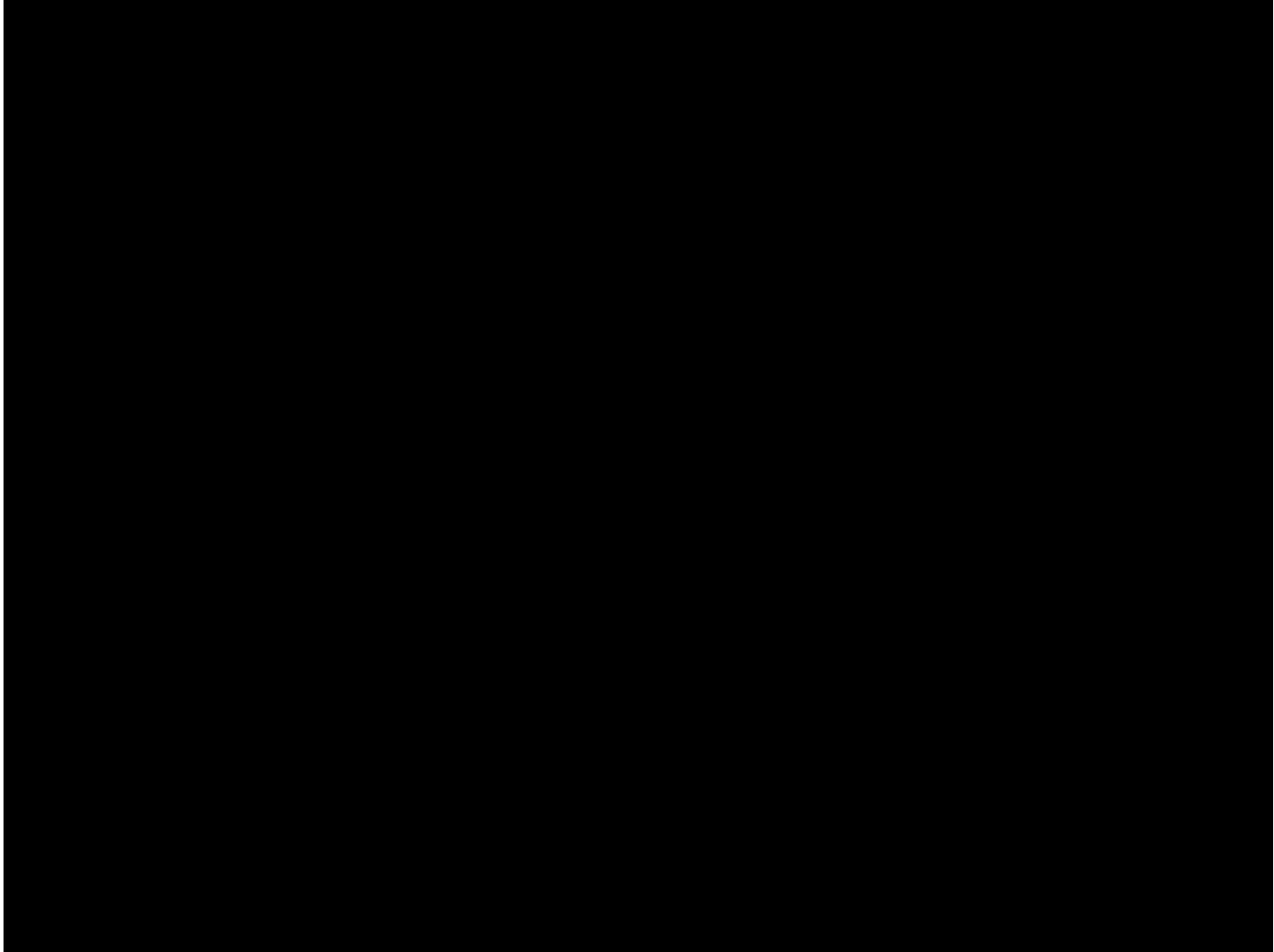
The main workspace shows a hierarchical structure of components:

- A top-level **Container** component.
- Inside the container, there are two **Row** components.
 - The first **Row** contains one **Column** component.
 - The second **Row** contains three **Column** components. The middle **Column** contains a nested **Row** component, which in turn contains two **Column** components.

Each component in the workspace has a "drag" icon and a "remove" icon for interaction.

AppFormer - Page Builder

Video



AppFormer - Form Building

Form Modeler [Order] ▾

Save Delete Rename Copy Latest Version ▾ ↗ ✕

Editor Overview

client

Lines

+ New Instance

Product	Amount	Price	Total		
---------	--------	-------	-------	--	--

0 of 0

Total

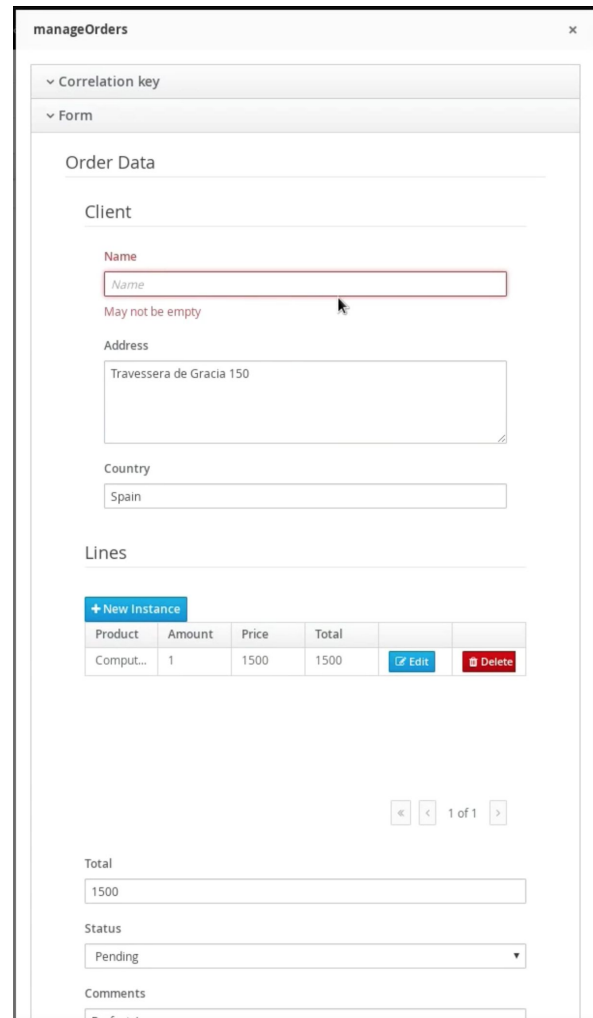
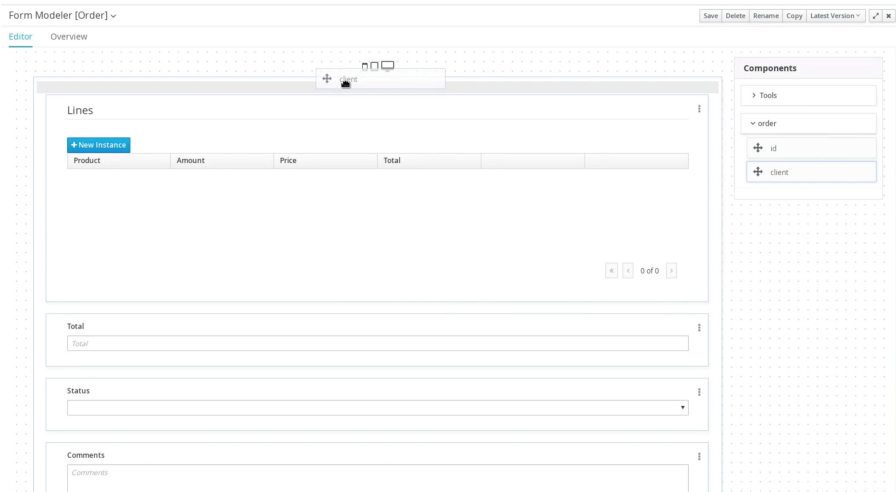
Status

Comments

Components

- > Tools
- ▼ order
 - + id
 - + client

AppFormer - Form Building



DashBuilder - BAM/Reporting

Video

Sales pipeline 920,763 K



Filter this chart

Country:

Region:

Product:

Order status:

Order type:

Order value range:

Order date range:

Order date:

Order value:



Country	Region	Product	Order status	Order type	Order value range	Order date range	Order date	Order value
USA	North	Electronics	Completed	Standard	1000 - 2000	2023-01-01 - 2023-01-31	2023-01-15	1500
USA	North	Electronics	Completed	Standard	1000 - 2000	2023-01-01 - 2023-01-31	2023-01-20	1800
USA	North	Electronics	Completed	Standard	1000 - 2000	2023-01-01 - 2023-01-31	2023-01-25	1200
USA	North	Electronics	Completed	Standard	1000 - 2000	2023-01-01 - 2023-01-31	2023-01-30	1600
USA	North	Electronics	Completed	Standard	1000 - 2000	2023-01-01 - 2023-01-31	2023-01-10	1400
USA	North	Electronics	Completed	Standard	1000 - 2000	2023-01-01 - 2023-01-31	2023-01-05	1100
USA	North	Electronics	Completed	Standard	1000 - 2000	2023-01-01 - 2023-01-31	2023-01-28	1300
USA	North	Electronics	Completed	Standard	1000 - 2000	2023-01-01 - 2023-01-31	2023-01-18	1700

Drools - Decision Tables

Pricing loans.gdst - Guided Decision Tables

Save Delete Rename Copy Validate Edit View Insert Latest Version

Editor Overview Source Data Objects

Decision table

All the rules inherit: None selected

Pricing loans		application : LoanApplication				ome : IncomeSou	Loan approved	LMI	rate
#	Description	amount min	amount max	period	deposit max	income			
1		131000	200000	30	20000	Asset	true	0	2
2		10000	100000	20	2000	Job	true	0	4
3		100001	130000	20	3000	Job	false	10	6
4		100001	130000	20	3000	Job	false	10	6

Analysis

Analysis complete

- 3, 4 - Subsumptant rows
- 1 - Missing range
- 2 - Missing range
- 3 - Missing range
- 4 - Missing range

Subsumptant rows

Affected rows: 3, 4

Subsumption exists when one row does the same thing as another, with a sub set of the values/facts of an another rule.

These rules might insert duplicate facts into the working memory or execute functions twice. If this is not expected behaviour please remove the subsumptant row or make it more strict.

jBPM - BPMN Modeller

Video

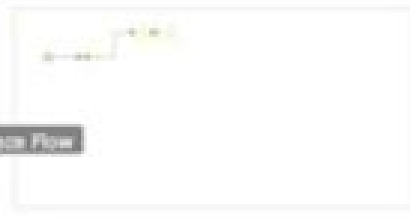
Tasks > Import > Toolbars > Flow

Flow



Explore diagram

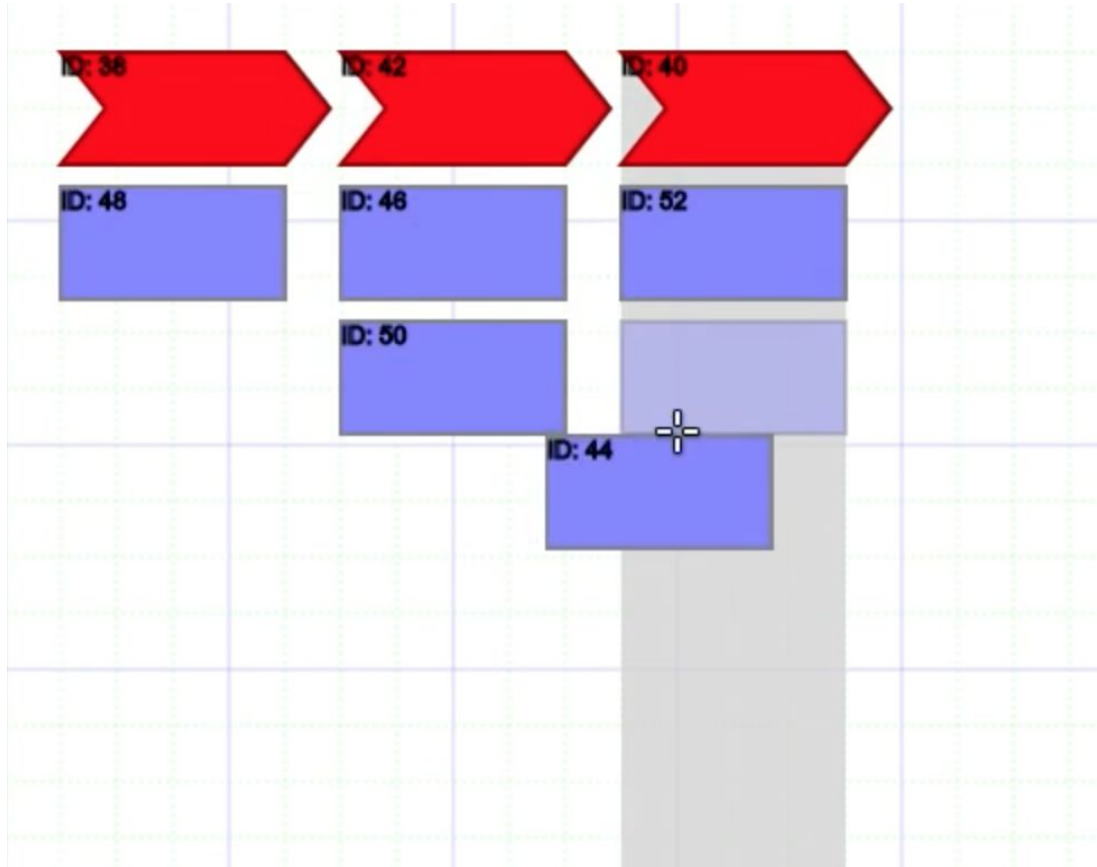
Preview



Explorer

- Flow1 (FlowDiagramView)
- Start (StartView)
- Task (TaskView)

jBPM - Case Modeller



MODERN APPLICATION DEVELOPMENT & UX CONVERGENCE

Robb Harvey, Entando

entando

A Digital Experience Platform (DXP) for Modern
Application Development.



Robb Harvey
COO

Gartner. 2015
CoolVendor

MARKET CONDITIONS

Radical Transformation of the Modern Enterprise

New Architectures,
Processes, Platforms

E.g., Hybrid Cloud
Computing, DevOps

Enterprise
Experience

Proliferation of UX,
Apps, Devices &
Content

ENTERPRISE SILOS

Threatening Customer Experience

Fragmentation

Disincentivized BU's

Organizational Culture - Centralized IT has lost control

APP MODERNIZATION

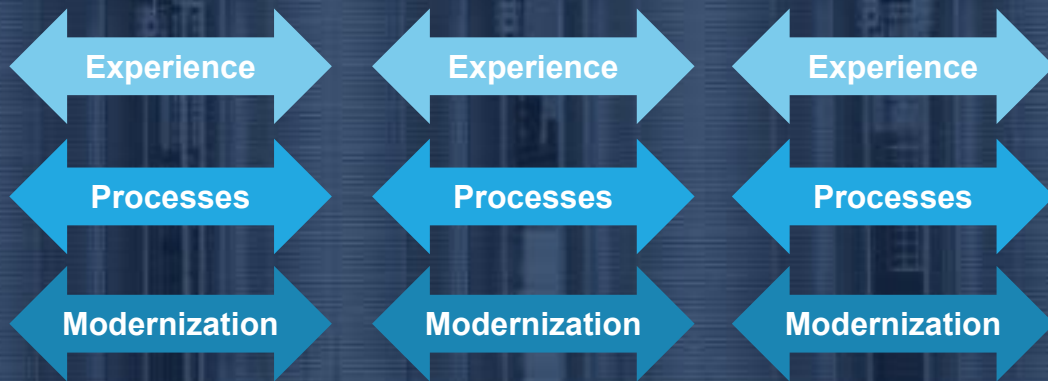
Not just a modernization of your infrastructure

- Application Composition (Forms, Navigation, Roles, etc)
- Low-Code Tooling
- Process-Driven Design & Modelling
- Collaboration
- Real-Time Analytics & Behavioral
- Agnostic UI Integration
- Application MarketPlace
- Founded on Principles of Continuous Integration

THE UX CONVERGENCE
SOLUTION

BRIDGING THE SILOS

UX Convergence Delivers Omnichannel
Experiences Across Silos





UX CONVERGENCE **MODEL**

● PATTERNS

● ORCHESTRATION

● ABSTRACTION

19:06

13 FEB '14

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

EXAMPLE
THE CALENDAR

- Wake Up
- 7:00 - Gym
- Work

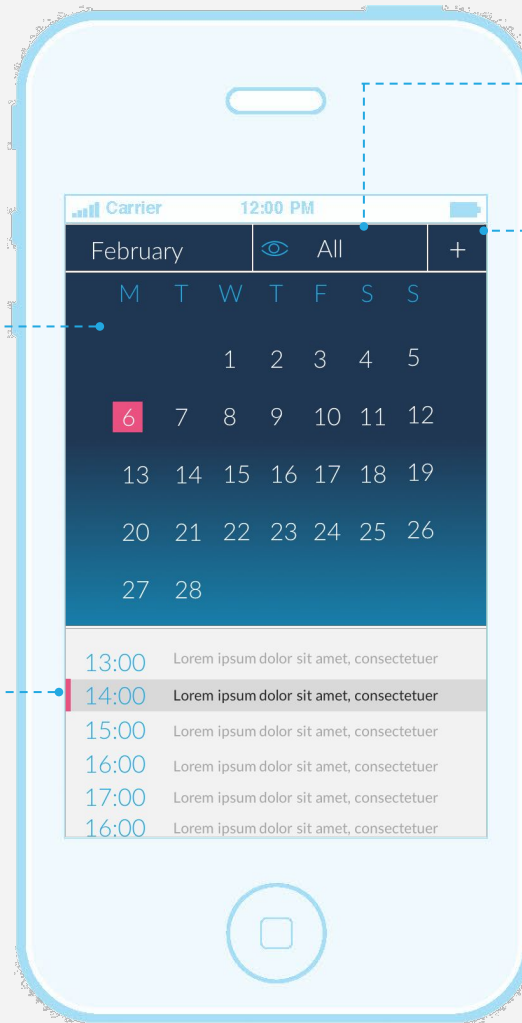


Month View

Standard View for
Appointment Dates & Times

Today View

Appointment Details



Filter Calendar View

From
available/integrated
calendars

Create New Appointment

From available/integrated
calendars

RED HAT® JBOSS® BPM SUITE

entando

Interested in learning more?

Head over to the **Modern Application Dev** area to learn more.



Partner Pavilion
Exhibit Hall A

Lightning Talk Theatre @ Dev Zone

UX Convergence - Harmonizing User Experience
Across the Enterprise

Date/Time:

Wednesday, May 3rd - 10:40am

CASE STUDY

JBOSS BRMS AT ASAHI TEKKO, JAPAN

Masahiko Umeno, Principal Solution Architect, Red Hat
Tetsuya Kimura, CEO, iSmart Technologies
Ryuji Kurokawa, COO, iSmart Technologies

Speakers



Asahi-Tekko CEO
iSTC CEO
Tetsuya **KIMURA**



iSTC COO
Ryuji **KUROKAWA**



Red Hat
Principal
Solution Architect
Masahiko **UMENO**

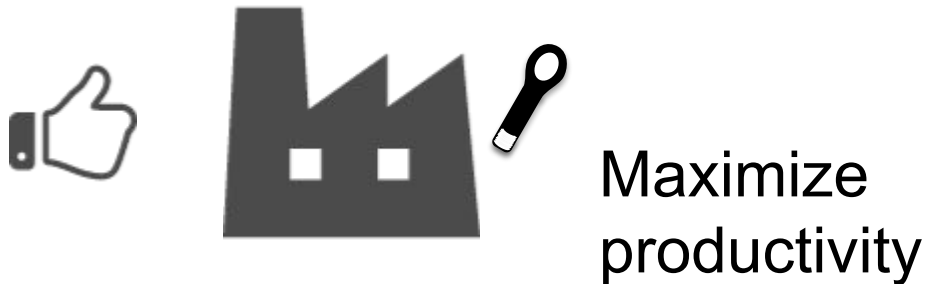
Company Profile

- Automobile parts supplier mainly for TOYOTA group
- Annual sales : 140M US\$
- Number of employees: 480



More order from TOYOTA but...

Factory space was short by **3,200yard**





IoT Solution


To increase the number of production



Number
of Production



$$\text{Number of Production} = \frac{\text{Operating Time [s]} \times \text{Operating Ratio [\%]}}{\text{Cycle time [s]}}$$

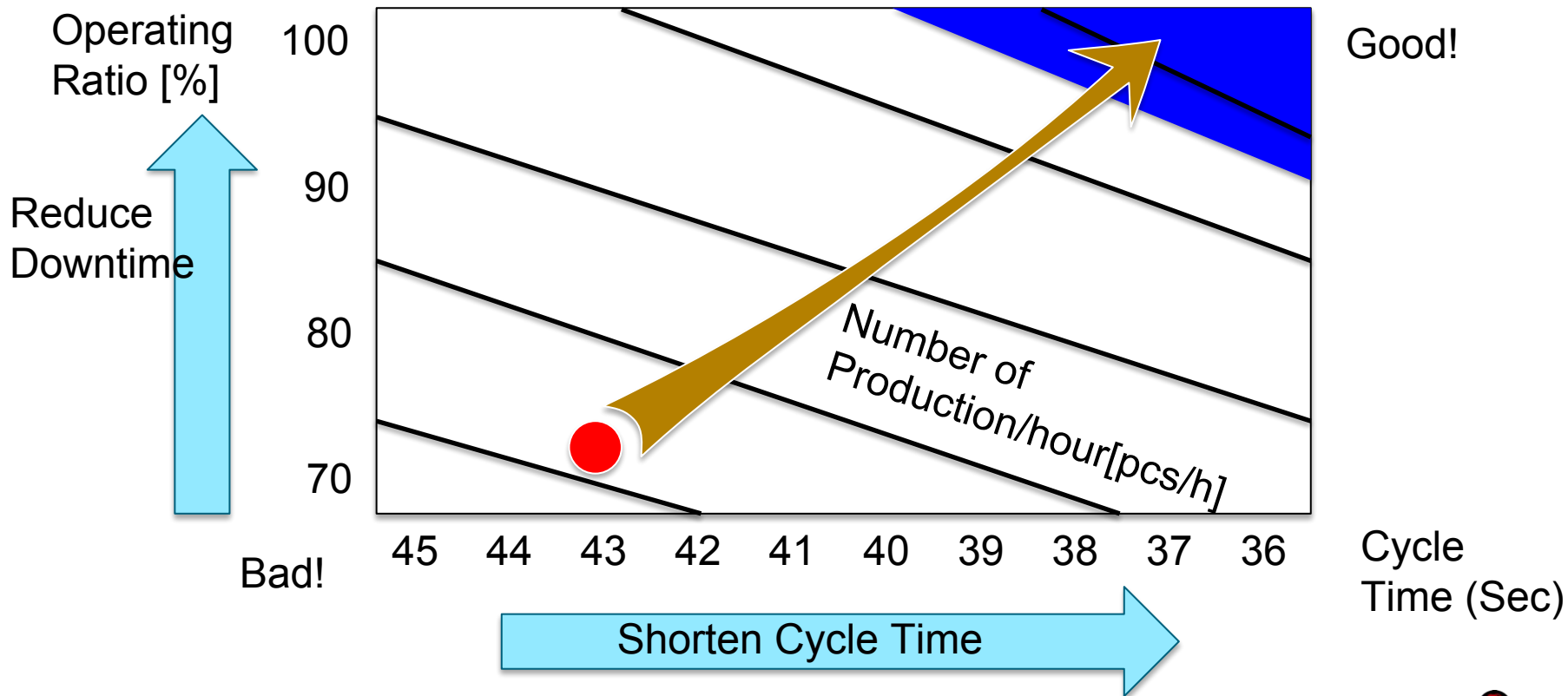
Operating Time [s]  × Operating Ratio [%] 

Reduce Downtime ↓ 

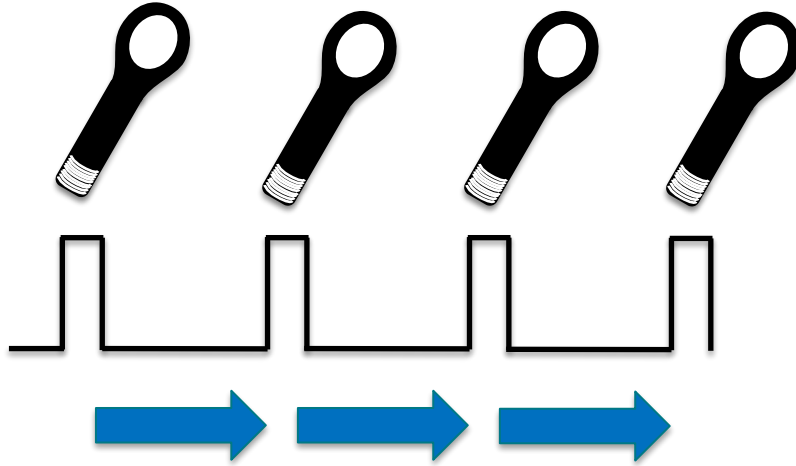
Shorten Cycle Time ↑  

**IoT Solution to visualize
downtime and cycle time**

To increase number of production



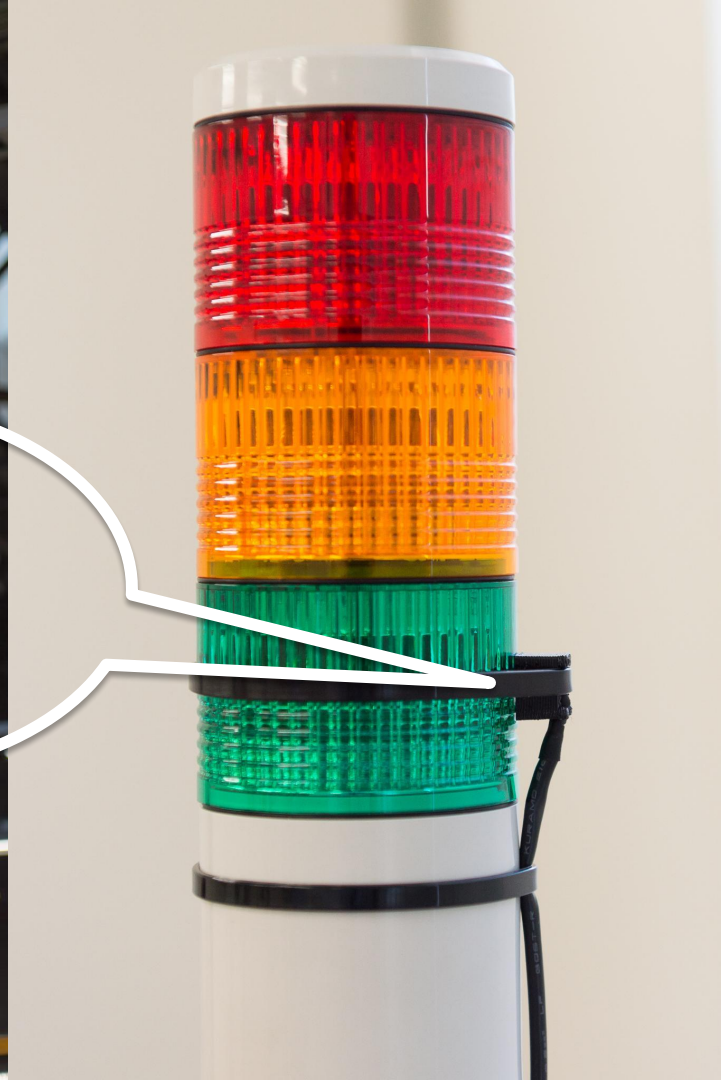
What is Cycle Time?



The period required
to complete one piece of production

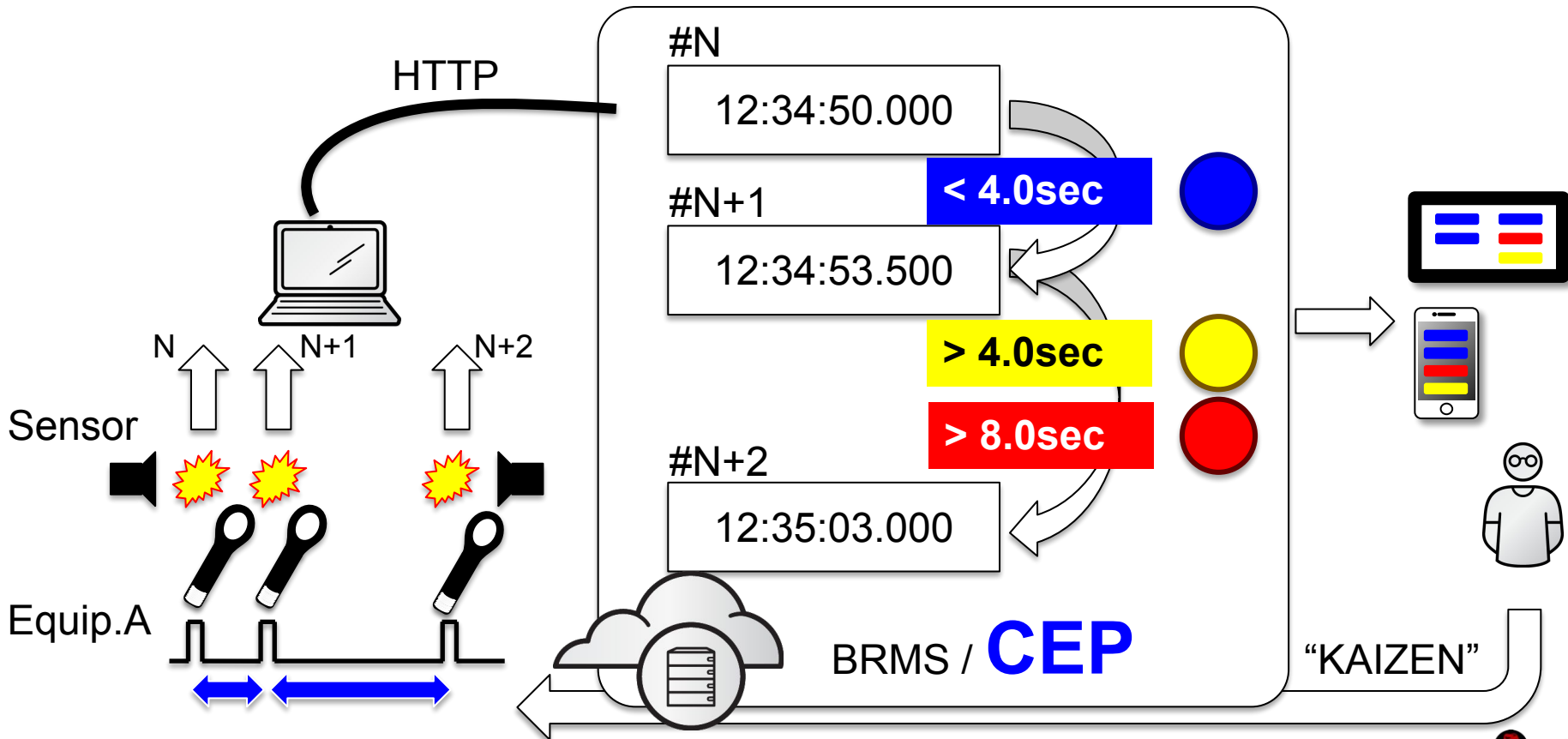


**Light
sensor**



Cycle Time Monitor

Alert Threshold: **4.0** for Equip.A



ストラット工場

稼働状況

溶接0号機 設備稼働 72.1% 83.8/h 35.2s 品番：47P 生産数：355/419 稼働時間：5.0h	溶接1号機 設備稼働 85.3% 102.2/h 35.48s 品番：47P 生産数：432/511 稼働時間：5.0h	溶接2号機 設備稼働 89.4% 108.2/h 36.22s 品番：47P 生産数：438/541 稼働時間：5.0h
溶接3号機 設備稼働 67.3% 83.5/h 38.51s 品番：47P 生産数：334/409 稼働時間：4.9h	溶接4号機 設備稼働 88.4% 98.9/h 36.39s 品番：5HW 生産数：389/445 稼働時間：4.5h	溶接5号機 設備稼働 86.4% 92.0/h 39.93s 品番：5HW 生産数：352/405 稼働時間：4.4h
溶接6号機 設備停止 25.7% 29.5/h -s 品番：175 生産数：124/124 稼働時間：4.2h	溶接7号機 設備停止 49.3% 60.0/h -s 品番：755 生産数：235/252 稼働時間：4.2h	溶接8号機 設備稼働 74.3% 89.8/h 34.61s 品番：30R 生産数：343/395 稼働時間：4.4h
溶接9号機 設備稼働 58.2% 72.5/h 33.1s 品番：745 生産数：289/319 稼働時間：4.4h	溶接10号機 設備停止 52.8% 61.6/h 32.39s 品番：730 生産数：173/191 稼働時間：3.1h	溶接11号機 設備停止 9.7% 10.3/h -s 品番：20W 生産数：40/40 稼働時間：3.9h
チューブ1号機 設備稼働 62.6% 245.6/h 13.84s 品番：740 生産数：237/393 稼働時間：1.6h	チューブ2号機 設備稼働 51.5% 155.6/h 13.36s 品番：750 生産数：573/669 稼働時間：4.3h	チューブ3号機 設備稼働 31.4% 237.5/h 12.79s 品番：47P 生産数：139/380 稼働時間：1.6h
チューブ4号機 設備稼働 76.2% 258.2/h 13.19s 品番：5HW 生産数：947/1136 稼働時間：4.4h	ロッド1号機 設備停止 86.3% 278.5/h 9.24s 品番：730 生産数：1054/1142 稼働時間：4.1h	ロッド2号機 設備稼働 53.4% 207.7/h 7.47s 品番：30R 生産数：819/893 稼働時間：4.3h
ロッド3号機 設備稼働 85.1% 300.0/h 3.27s 品番：5H 生産数：1222/1290 稼働時間：4.3h		

バー工場

稼働状況

バー溶接2号機 計画停止 -% -/h -s	バー溶接3号機 設備稼働 86.3% 47.8/h 56.12s	バー溶接4号機 設備停止 59.7% 33.3/h -s
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Aライン / A-05

2017/04/11 05:00:00 ~ 2017/04/11 14:30:00

Downtime

停止時間

51分26秒

停止要因情報

ランク	発生時刻	復帰時刻	停止時間	
1	09:32:09	10:23:35	51分26秒	
2	07:51:37	07:54:20	02分42秒	
3	05:40:35	05:41:55	01分20秒	設備停止
4	09:06:26	09:07:36	01分09秒	設備停止
5	05:31:47	05:32:44	00分57秒	設備停止

信号詳細

CT 平均値 4.7
LQI 平均値 73.3

Cycle Time

13:01:34

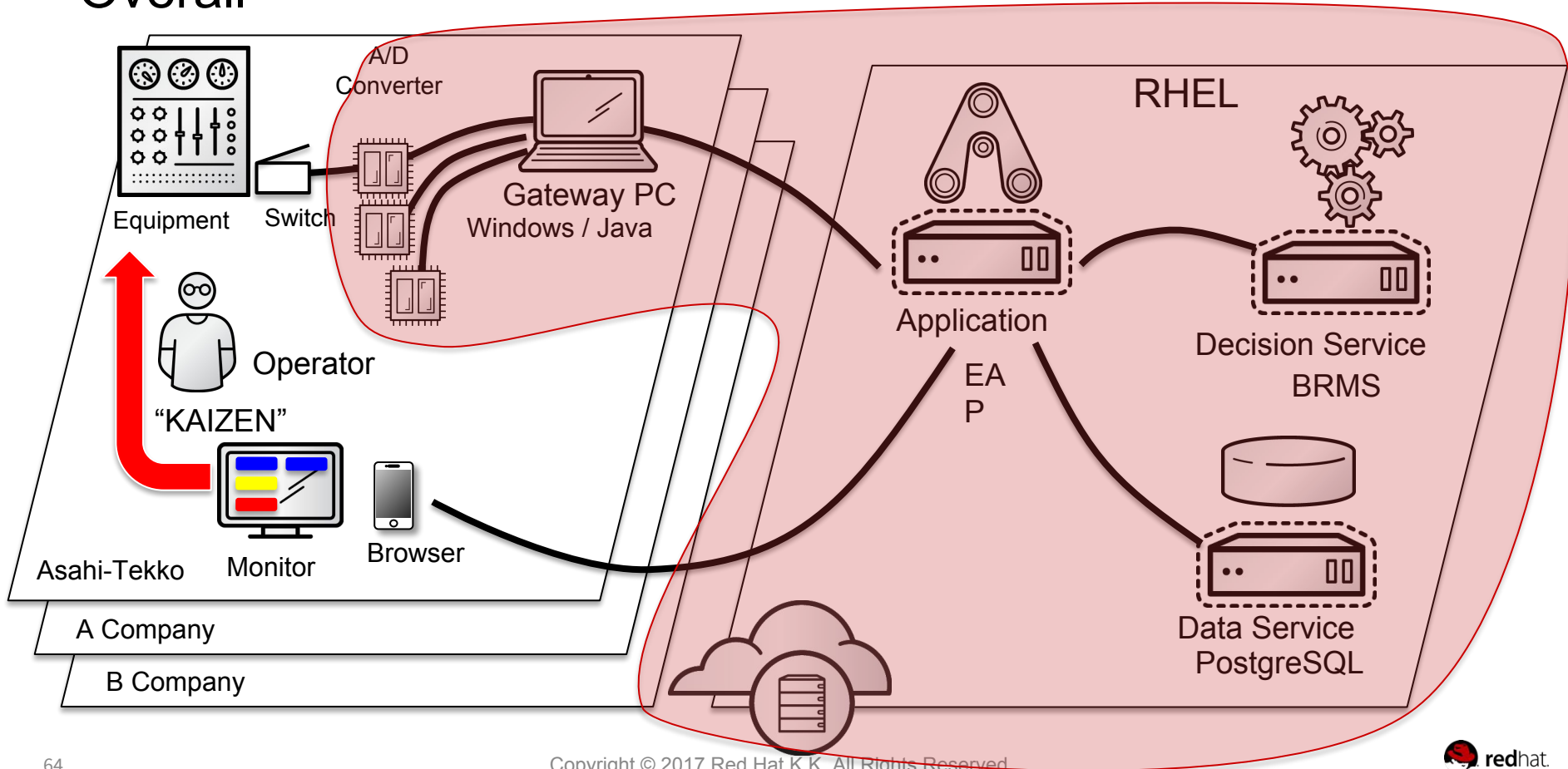
3.8

13:01:30

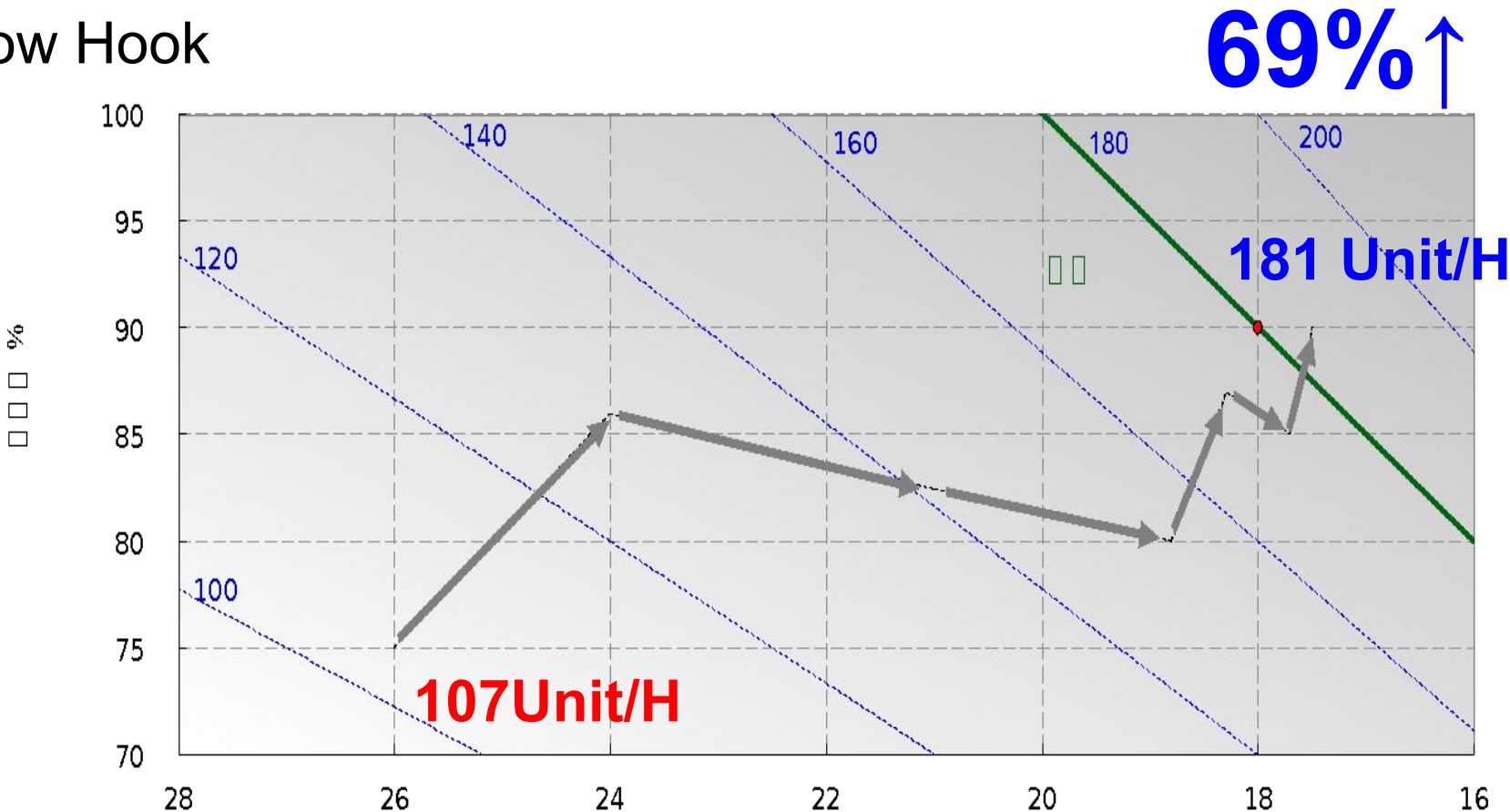
4.4

13:01:38	3.8	0	72
13:01:34	3.8	0	72
13:01:30	4.4	0	72
13:01:26	3.8	0	75
13:01:22	3.9	0	75

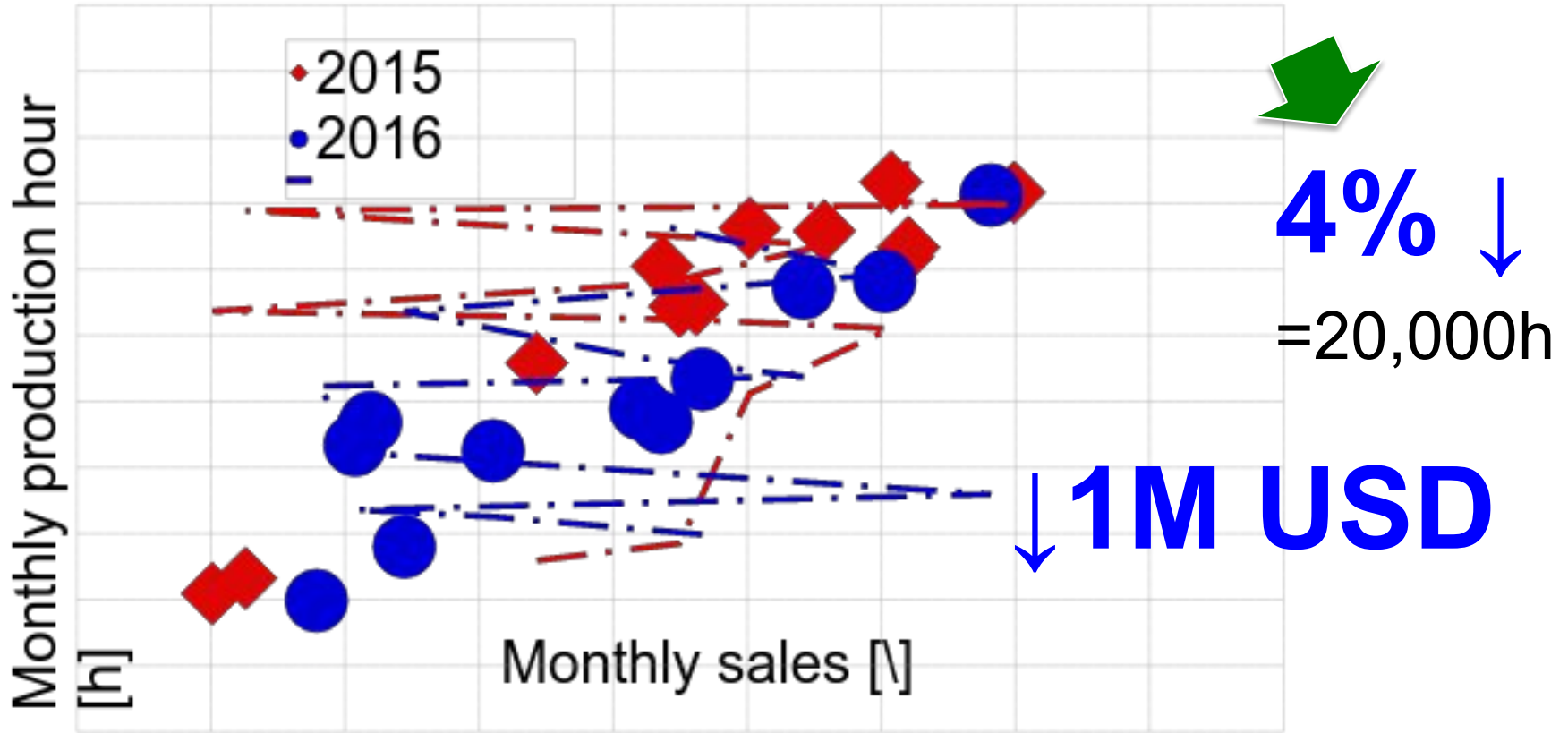
Overall



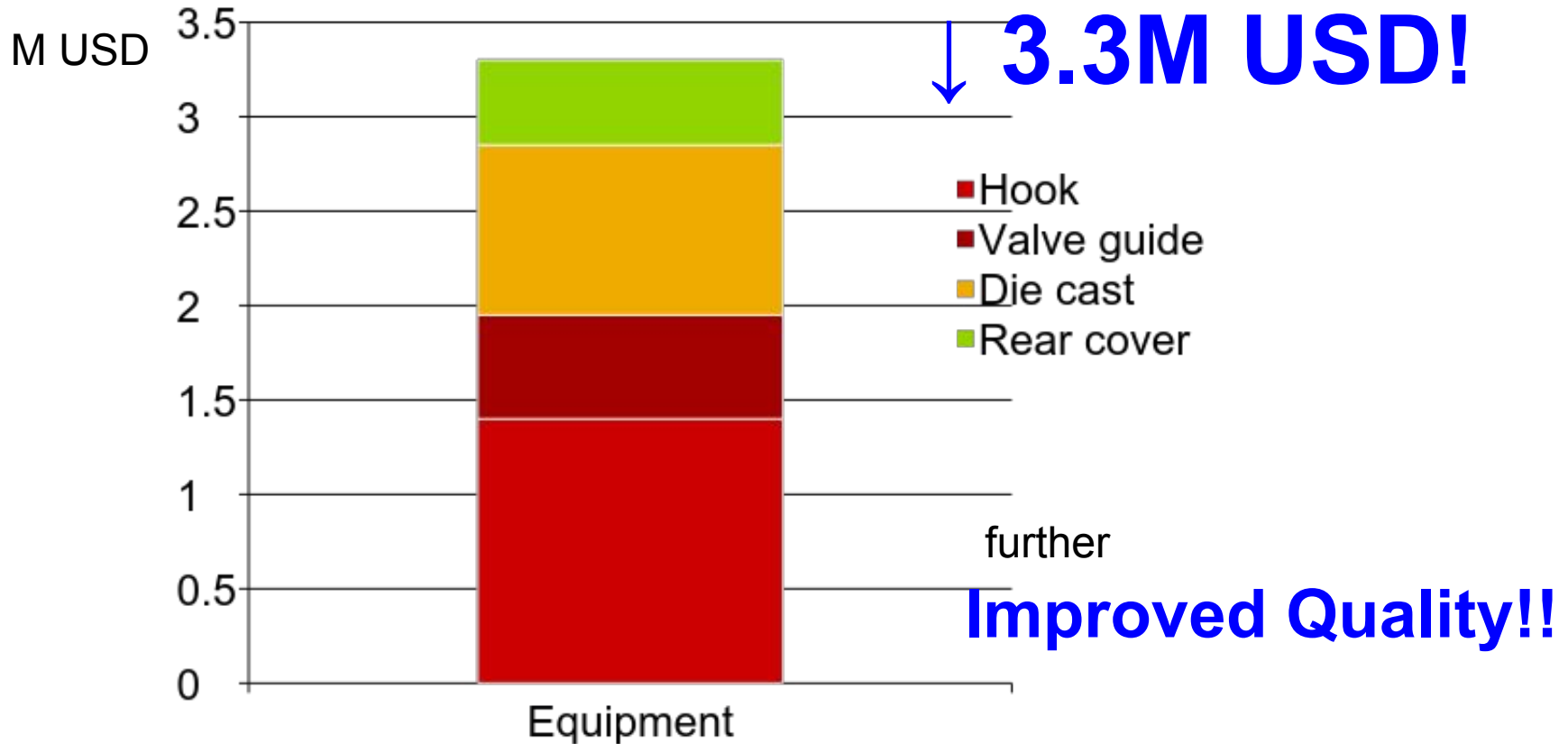
Tow Hook



Labor cost

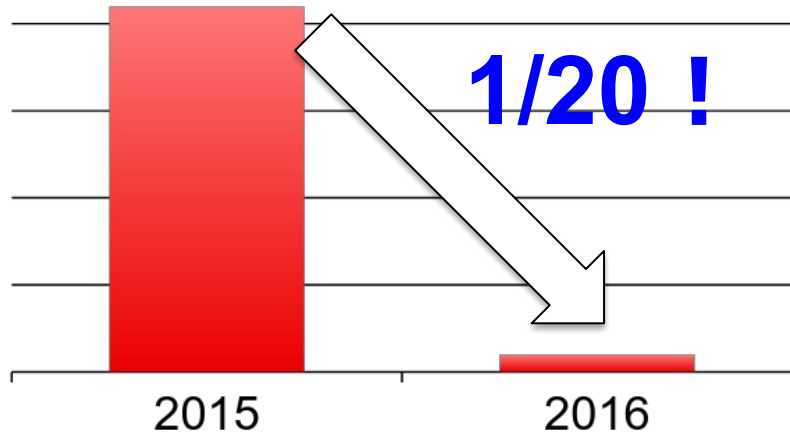


Capital investment reduction

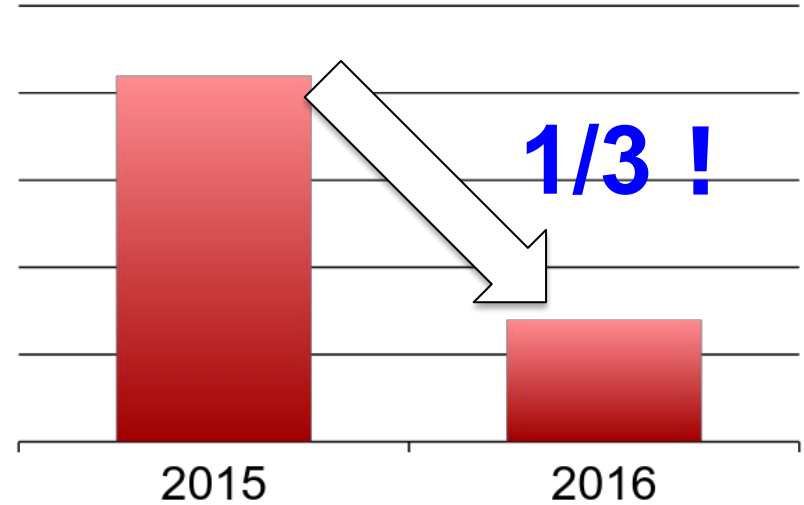


Quality of production

Fraction defective of Tow Hook

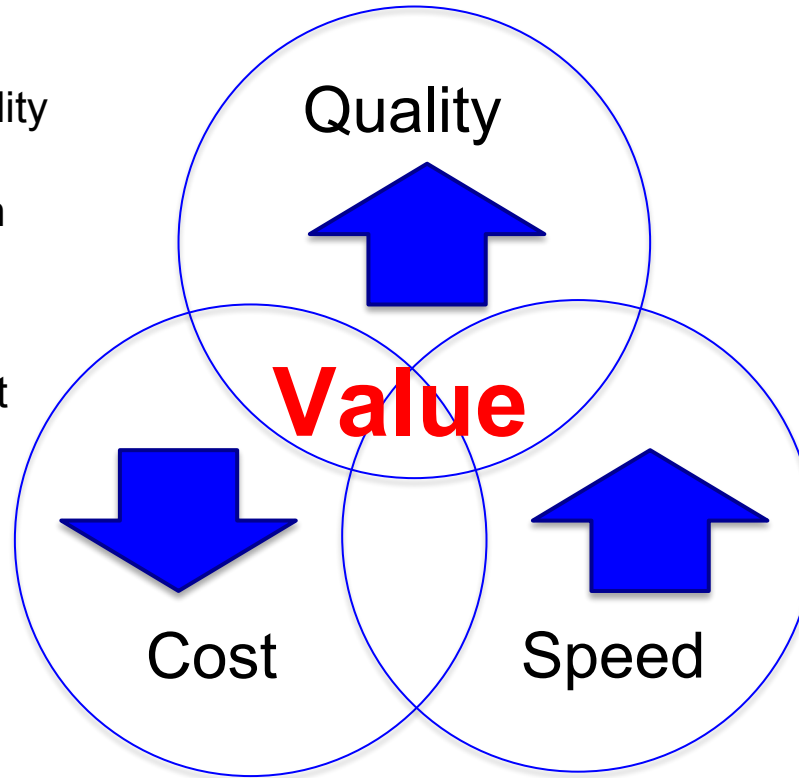


Fraction defective of ALL



Lesson and Learned

- Improved QoS
 - Improved Software Quality
 - Reduced Failure
 - Reduced miss operation
-
- Reduce Production Cost
 - Effective use Resource
 - Reduce Labor Cost
 - Reduce unnecessary Operation



Same as

DevOps

- Automated Operation
- Shorter interval
- “KAIZEN”
- Reduce stopping time

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Related Talks

Time	Topic	Room
Tues 11:30am	Transforming a Process-Driven Enterprise to a Digitally Engaged Enterprise	157B
Tues 3:30pm	Decision Modeling & Notation 101	154
Tues 3:30pm	Show me the money!!!: optimize your business with JBoss BRMS Business Resource Planner	153
Weds 10:15am	BoF - Preview BPM Suite 7 And meet the brains behind it	158
Weds 4:30pm	Deep dive on Case Management	151B
Thurs 10:15am	Case management applications with BPM	153C
Thurs 11:30am	Advanced Drools BoF	158

INTERACT | DISCUSS | DESIGN

A DESIGN APPROACH TO BRIDGE DEVOPS AND BUSINESS AUTOMATION

Ron Murhammer, NA Business Automation Practice Lead
David Bush, Business Automation Consultant

Tuesday, May 2, 3:30 PM - 4:15 PM

Located at the Consulting Discovery Zone at the Services Showcase in the Partner Pavilion

To learn more, visit red.ht/discoverysession



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Partner Pavilion

Exhibit Hall A

Session Title

Red Hat JBoss BPM Suite Feedback

Contact Name

Liz Blanchard

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