

RED HAT
SUMMIT

Building secure IoT solutions with Red Hat

Featuring Red Hat Enterprise Linux, Red Hat JBoss A-MQ, Fuse, BRMS, Red Hat Mobile Application Platform, and Ansible

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Red Hat

May 3, 2017

Let's imagine ...



Enterprise IoT Requirements

Enterprise Class Foundation

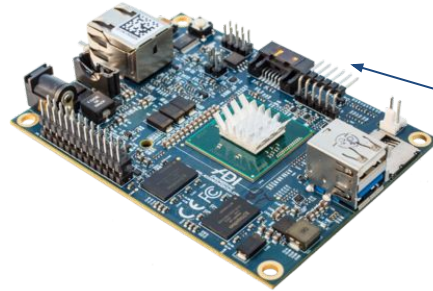
- Minimize Risk
- Automated deployment, configuration and update
- Long Lifecycle

- Secure and Trusted Platform

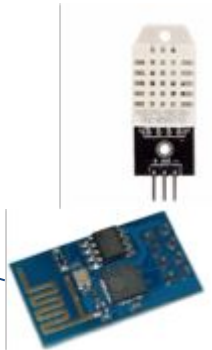
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Demo - Setup: Secure and Trusted Platform

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Intelligent Gateway



Sensor

Device Diversity

- Device protocols
- Reliable data delivery over unreliable media

- Multi-protocol support
- Multiple messaging paradigms
- Deployment flexibility

RED HAT® JBOSS®
A-MQ

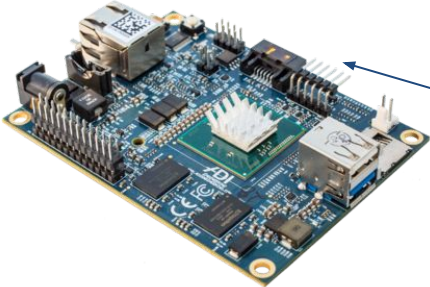
Enables real time integration everywhere

Demo - Setup: Reliable Data Delivery

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A-MQ

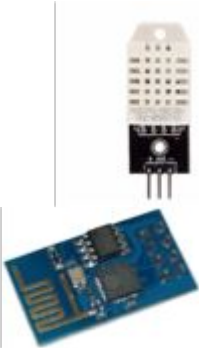


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Intelligent Gateway

MQTT
- Topic: 'iotdemo/<type>/<cpu-id>'
- Payload: '<value>,<count>'



Sensor

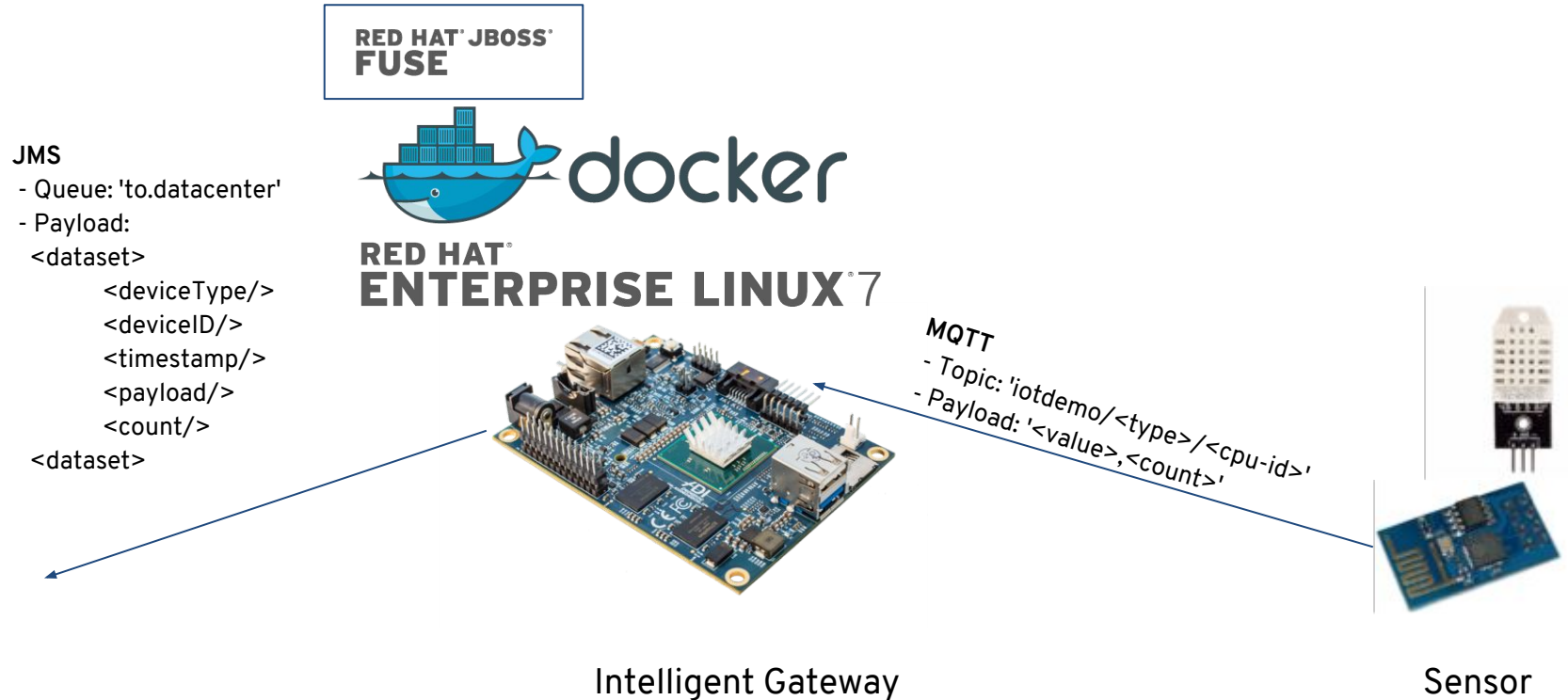
Device Data

- Data Volume
- Integrating IoT datastream with enterprise data

- Apache Camel Routing
- Enterprise Integration
- Distributed
- Hybrid deployment

RED HAT® JBOSS®
FUSE

Demo - Setup: Integrating IoT Datastream



Intelligence at Edge

- Real time/critical decisions
- Hard coding business logic

- Intelligence at the edge
- Separate business rules from applications
 - Express rules in terms that business can easily understand

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BRMS

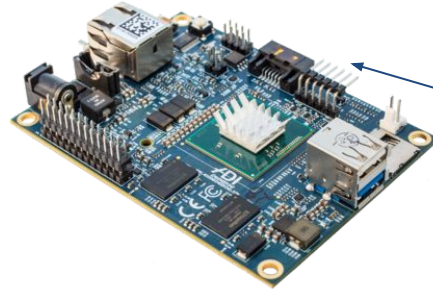
Demo - Setup: Intelligence at the Edge

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FUSE

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BRMS

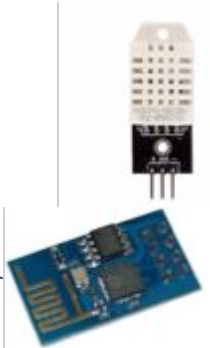


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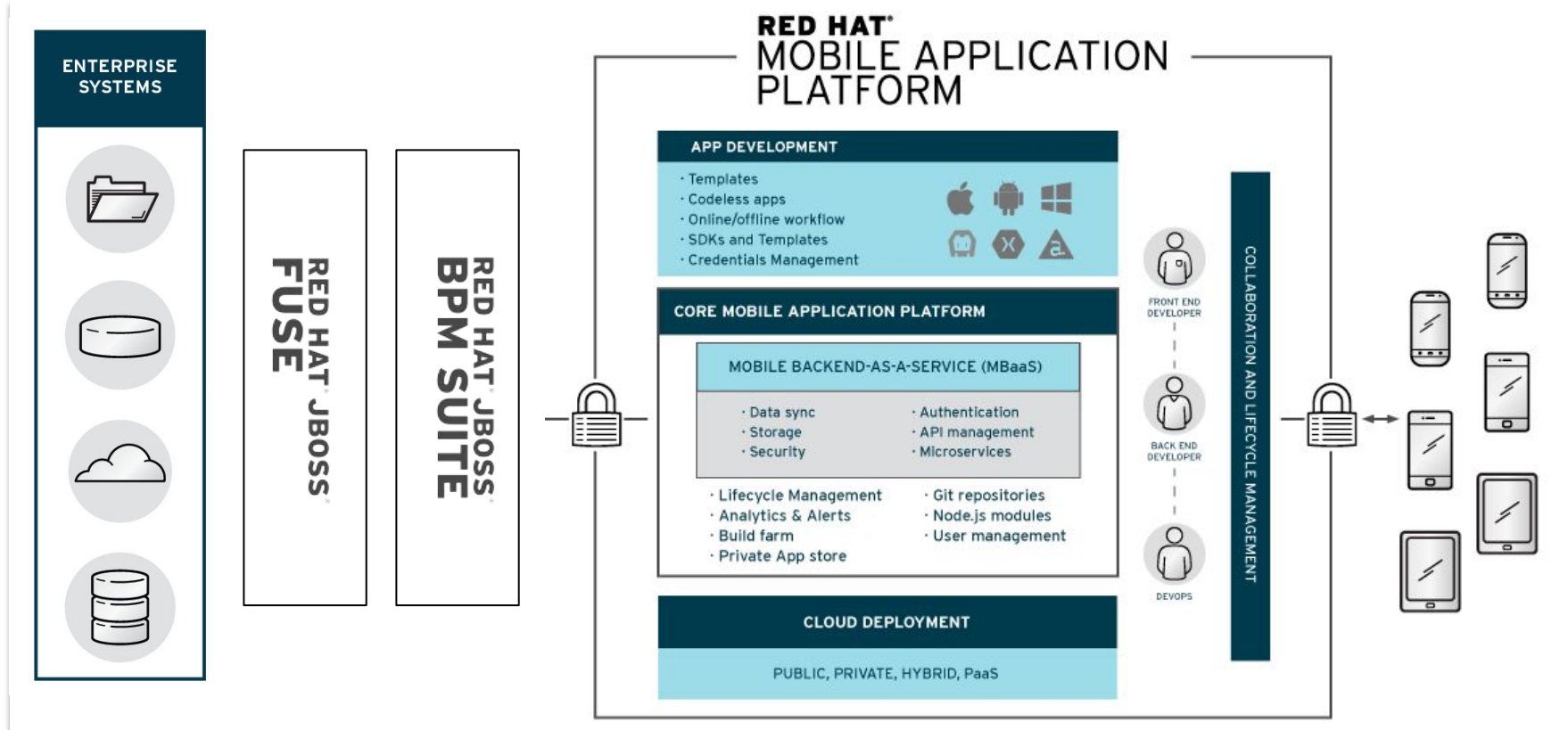
Intelligent Gateway

MQTT
- Topic: 'iotdemo/<type>/<cpu-id>'
- Payload: '<value>,<count>'



Sensor

Mobile and JBoss BPM Suite



Demo: Full Picture

4 - Handle Event

Work Details Process Context Assignments C

Device Type: temperature Device ID: 42

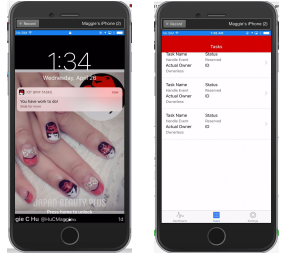
Time Message Received: 10:12:09

Error Code: 2 Error Message: Temperature to high

Data Received: 31

Release Start

Browser



Mobile



Voice



Data Center

RED HAT JBOSS FUSE

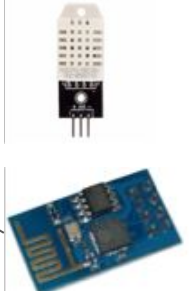
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Intelligent Gateway



Sensor

Questions

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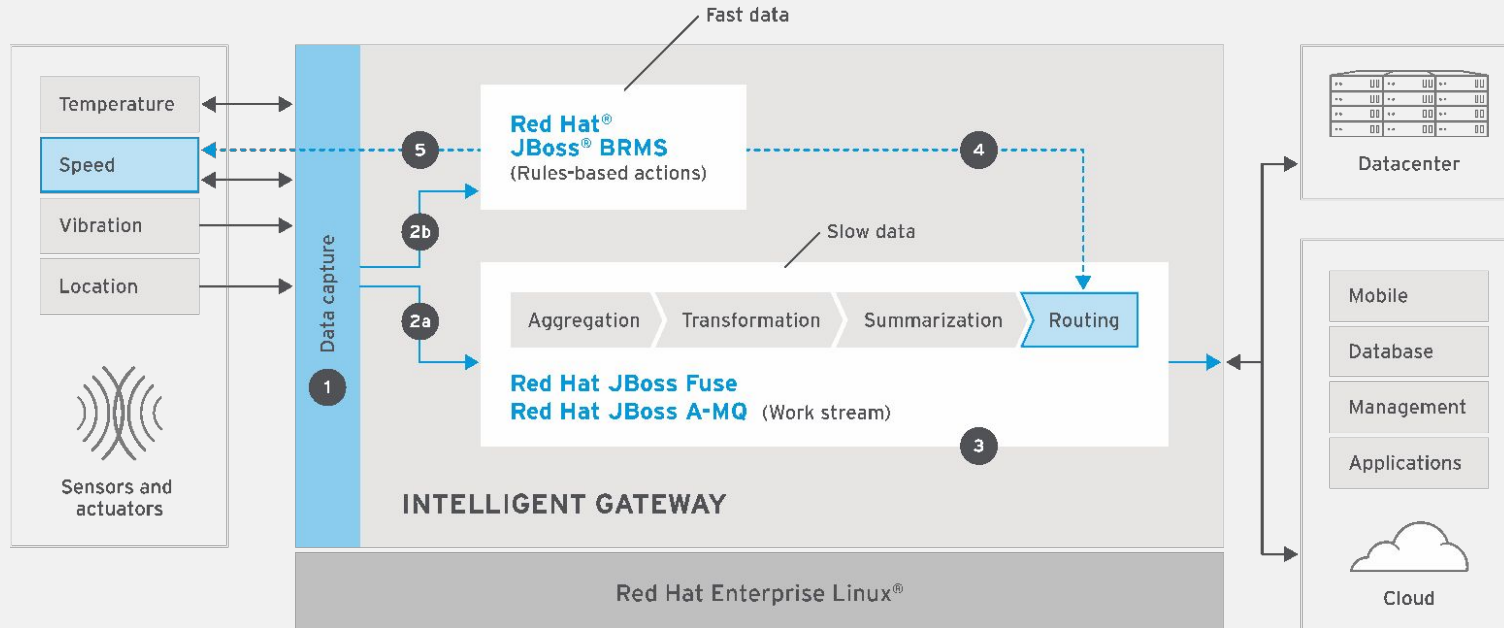
youtube.com/user/RedHatVideos

RED HAT API MANAGEMENT AT SUMMIT 2017

Time	Room	Title
Thursday, 4th May		
10:15	152	Managing across the API life cycle
15.30	157B	Schiphol Airport: Sharing the experience of running a multicloud OpenShift integration CPaaS with API management in production
16.30	152	How to craft a successful API strategy
16.30	153C	Mobilizing and securing Red Hat JBoss BPM Suite and BRMS

Intelligent IoT Gateway

Transforming device data into actionable information



RED HAT OPPORTUNITY

