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Middleware Platforms for Integration & BPM : A Product Comparison

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Today's session

- Red Hat JBoss Middleware focus
 - Red Hat JBoss BRMS
 - Red Hat JBoss A-MQ
 - Red Hat JBoss Fuse
 - Red Hat JBoss Data Services

- Content is based on publicly available material

But first... some competitive points across the Red Hat JBoss Middleware portfolio

- Open source!
- Total cost of acquisition consistently favors Red Hat for the platforms discussed today
- Red Hat subscription can be re-sized annually
- Red Hat subscription cost does not vary based on CPU

More competitive points across the Red Hat JBoss Middleware portfolio

- Developers are easily enabled
- Robust support for virtualization & growing cloud support
- Competitive briefs are available for download

“Why Choose Red Hat JBoss Middleware over ...”

- Oracle - https://engage.redhat.com/forms/jb_oracle_fusion_competitive_sheet
- IBM - <https://engage.redhat.com/forms/jboss-v-websphere>

Red Hat JBoss BRMS

- Competing to be the technology that reliably and consistently controls your company in a timely fashion
- A great combination of functionality
 - Business rules management system
 - Complex event processing
 - BPMN-based business process management

Red Hat JBoss BRMS

- Competitive briefs available on RedHat.com
 - Oracle - <http://www.redhat.com/resourcelibrary/whitepapers/brms-vs-oracle-soa-bpm>
 - IBM - <https://engage.redhat.com/forms/brms-v-ibm>
- One package for all capabilities
 - Oracle - WebLogic Suite, SOA Suite, and BPM Suite
 - IBM - Operational Decision Manager and Business Process Manager Standard
- Full business rules engine and asset management
- Embedded process option

Red Hat JBoss BRMS

- Unified business rules and complex event processing

```
rule "Sound the alarm in case temperature rises above threshold"
when
    TemperatureThreshold( $max : max )
    Number( doubleValue > $max ) from accumulate(
        SensorReading( $temp : temperature ) over window:time( 10m ), average( $temp ) )
        // 13 temporal operators we could use in a rule
then
    // sound the alarm
end
```

- IBM Operational Decision Manager & Oracle SOA Suite
 - Business rules and complex events development is done using different tools
 - Business rules and complex events are deployed in separate run times
 - Architects must design a solution that allows business rules and complex events to inter-operate

Red Hat JBoss BRMS

- BPMN 2.0 based BPM
 - Modeling tools for both business and technical user, human workflow, and other features at an economical price point
 - Domain specific nodes allow customers to “custom fit” the platform
- 2-year total cost of acquisition savings

IBM

2-year JBoss Enterprise BRMS subscription costs		
	JBoss Enterprise BRMS Platform with Management, 16 Core Premium	JBoss Enterprise BRMS Platform with Management, 64 Core Premium
Annual Subscription	\$36,000	\$130,000
2-years of annual subscription	\$72,000	\$260,000
Savings versus IBM (USD)	\$9,868,440.00	\$39,501,760.00
Red Hat cost as a percentage of IBM	0.72%	0.65%

Oracle

2-year JBoss Enterprise BRMS subscription costs		
	JBoss Enterprise BRMS Platform with Management, 16 Core Premium	JBoss Enterprise BRMS Platform with Management, 64 Core Premium
Annual Subscription	\$36,000	\$130,000
2-years of annual subscription	\$72,000	\$260,000
Savings versus Oracle (USD)	\$1,771,200.00	\$7,112,800.00
Red Hat Cost as a percentage of Oracle	3.91%	3.53%

Red Hat JBoss BRMS

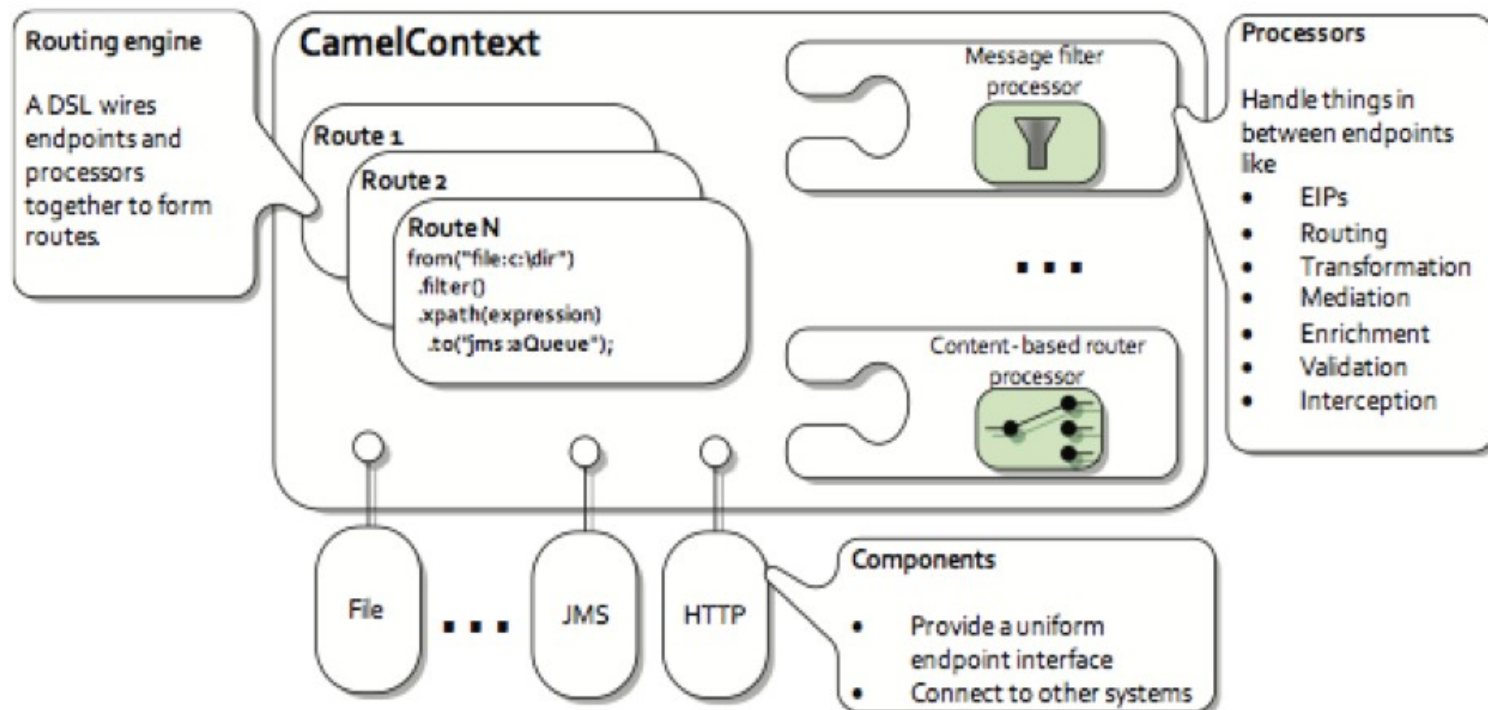
- Upcoming release will include functionality acquired from Polymita
- Red Hat Summit sessions presenting JBoss BRMS 6
 - The New Wave in BPM from Red Hat
 - Empowering Business Users with Process Management Tools
- Look for updated JBoss BRMS competitive content on RedHat.com in the future

Red Hat JBoss Fuse

- Competitive briefs available on RedHat.com
 - Oracle - <https://engage.redhat.com/forms/fuse-v-oracle-service-bus>
 - IBM - <https://engage.redhat.com/forms/fuse-v-ibm-wesb>
 - MuleSoft - <https://engage.redhat.com/forms/fuse-v-mule-esb>
- Reliable messaging platform via JBoss A-MQ
 - Oracle and IBM by default rely on JMS provider in the application server
- Transport bindings
 - 125+ different Camel components supported
 - IBM and Oracle have adapters for purchase

Red Hat JBoss Fuse

- Camel!
 - Wide community familiarity
 - 45 supported enterprise integration patterns. IBM and Oracle offer none!



Red Hat JBoss Fuse

- Runs in an OSGi framework
 - Perfect for the target usage – retail, departments, etc..
- Embedded Java deployment
 - Use Camel directly in Java applications

Red Hat JBoss Fuse

- 2-year total cost of acquisition savings
- Adjust your subscription size annually if needed

2-year Red Hat JBoss Fuse subscription costs		
	JBoss Fuse, 16 Core Premium, Managed	JBoss Fuse, 64 Core Premium, Managed
Annual subscription	\$32,400	\$121,500
2-years of annual subscription	\$64,800	\$243,000
Savings versus IBM (USD)	\$823,680.00	\$3,310,920.00
Red Hat cost as a percentage of IBM	7.29%	6.84%

2-year Red Hat JBoss Fuse subscription costs		
	Red Hat JBoss Fuse, 16 Core Premium, Managed	Red Hat JBoss Fuse, 64 Core Premium, Managed
Annual subscription	\$32,400	\$121,500
2-years of annual subscription	\$64,800	\$243,000
Savings versus Oracle (USD)	\$718,560.00	\$2,890,440.00
Red Hat cost as a percentage of Oracle	8.27%	7.76%

2-year Red Hat JBoss Fuse subscription costs		
	Red Hat JBoss Fuse, 16 Core Premium, Managed	Red Hat JBoss Fuse, 64 Core Premium, Managed
Annual subscription	\$32,400	\$121,500
2-years of annual subscription	\$64,800	\$243,000
Savings versus MuleSoft (USD)	\$127,200	\$525,000
Red Hat cost as a percentage of MuleSoft	33.75%	31.64%

Red Hat JBoss SOA Platform

- Upcoming release builds on Fuse, offering additional deployment options, governance and activity monitoring
- Several Red Hat Summit sessions covering the JBoss SOA Platform
 - Loosely Coupled, Reusable, & Interoperable: Integration Overview & Roadmap
 - Red Hat JBoss SOA Platform 6 Quick Start
 - Integrating Distributed, Cloud, & Mobile Applications into the Intelligent, Integrated Enterprise
- Look for JBoss SOA Platform competitive briefs and other content on RedHat.com in the future

Red Hat JBoss A-MQ

- Competing to help you reliably move messages between systems
- The more systems you can interconnect the better
- For intra-application platform communications use Hornet-Q
- Red Hat JBoss A-MQ is JMS messaging plus much more...

Red Hat JBoss A-MQ

- Competitive briefs available on RedHat.com
 - IBM - https://engineering.redhat.com/pnt/p-345813/JB_A-MQ_vs_IB...313cd_web.pdf
 - TIBCO – In development
- Simple acquisition – 1 platform subscription
 - IBM WebSphere MQ provides functionality other IBM products layer on top of
 - WebSphere MQ Telemetry, WebSphere MQ Managed File Transfer, WebSphere MQ Low Latency Messaging, WebSphere MQ Advanced Message Security
 - TIBCO Enterprise Messaging Service
 - Independent product that functionality can be added to
 - TIBCO Web Messaging for TIBCO EMS, TIBCO Rendezvous and TIBCO SmartSockets

Red Hat JBoss A-MQ

- **Broader Protocol support**
 - OpenWire, Stomp, REST, XMPP, VM
 - IBM MQ Series – JMS, MQI, SOAP, REST (via HTTP bridge)
 - TIBCO – JMS, TIBCO Rendezvous and TIBCO SmartSockets when licensed separately
- **Greater client connectivity**
 - C, C++, C#, .NET, Delphi, Flash, Perl, PHP, Pike, and Python
 - IBM - Java, .NET, COBOL, and C/C++ (IBM specific – z/OS assembler, AS/400 RPG)
 - TIBCO out-of-the-box – Java, C, Cobol, and .NET
- **Reduce development costs**
 - IBM WebSphere MQ Advanced for Developers (\$2.5k)
 - TIBCO Enterprise Messaging Service
 - No access to other TIBCO portfolio products

Red Hat JBoss A-MQ – Client failover

- Red Hat JBoss A-MQ clients can dynamically determine a list of brokers they can connect to using discovery protocols
- IBM WebSphere MQ
 - Clients rely on a static setting found in a configuration file to establish connections
- TIBCO Enterprise Messaging Service
 - Clients connect using URLs associated with the primary and backup server
 - If backup server is not available, connection fails

Red Hat JBoss A-MQ – MQTT support

- MQTT (telemetry transport) is a machine-to-machine (M2M)/"Internet of Things" connectivity protocol
 - Extremely lightweight
 - Rapidly gaining adoption in mobile computing
- Out of the box support with JBoss A-MQ
- JBoss Fuse support via MQTT camel component



- OASIS MQTT technical committee is producing a standard for the Message Queuing Telemetry Transport Protocol compatible with MQTT V3.1

Red Hat JBoss A-MQ

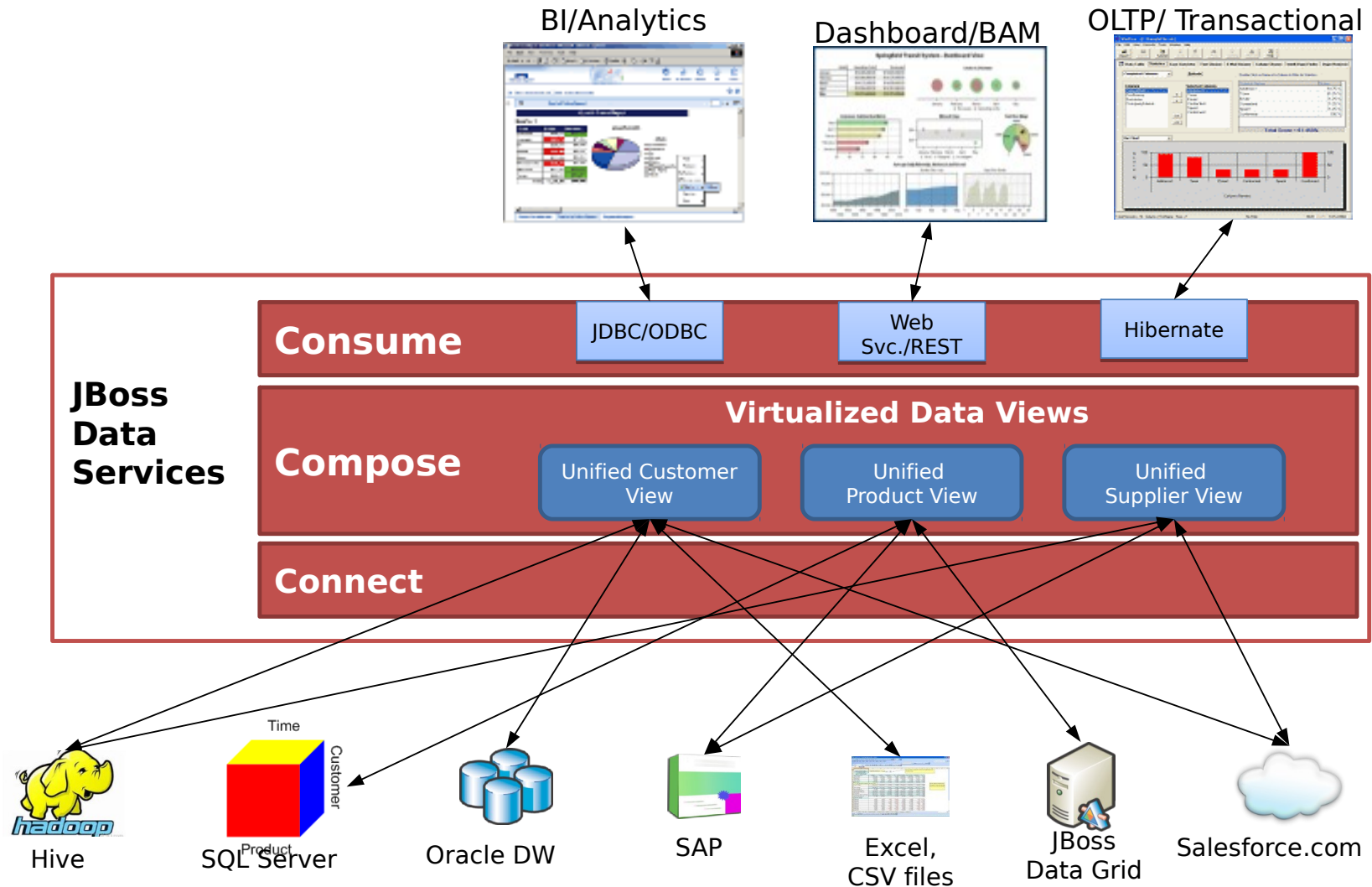
- 2-year total cost of acquisition savings compared to IBM WebSphere MQ
- TIBCO does not provide public pricing information

	2-year Red Hat JBoss A-MQ subscription costs	
	Red Hat JBoss A-MQ, 16 Core Premium, Managed	Red Hat JBoss A-MA, 64 Core Premium, Managed
Annual subscription	\$21,600	\$81,000
2-years of annual subscription	\$43,200	\$162,000
Savings versus IBM (USD)	\$713,280.00	\$2,863,920.00
Red Hat cost as a percentage of IBM	5.71%	5.35%

Red Hat JBoss Data Services

- Technology you can use to federate data sources
 - Data stored on multiple systems with potentially different data structures
 - Allows you to re-use data already in place
 - Provide a service end point to federated data
- Competition is not from middleware products...
 - Database product lines
 - Boutique companies

Red Hat JBoss Data Services



Red Hat JBoss Data Services

- Layers functionality on top of SOA-P
 - Simple acquisition – on platform from Red Hat compared to multiple products from competitors to match capabilities
- Not a data warehouse or data replication strategy with a huge footprint
 - High performance virtualization engine
- Minimal run time overhead
 - Highly-optimized relational engine
- Easy to extend and customize

Competitive session on application development was on Thursday

- Middleware Platforms for application development: A Product Comparison
 - If you missed the session... look for slides on Red Hat Summit site to download
- Several papers available for download
 - Red Hat JBoss Enterprise Application Platform
 - Compared to Oracle WebLogic Server Enterprise Edition
<https://engage.redhat.com/forms/eap-v-weblogic>
 - Compared to IBM WebSphere Application Server Network Deployment Edition - <https://engage.redhat.com/forms/eap-v-websphere>
 - Red Hat JBoss Data Grid
 - Compared to Oracle - <https://engage.redhat.com/forms/data-grid-v-coherence-grid>
 - Terracotta BigMemory Max comparison coming soon!



Questions?