



Red Hat JBoss FUSE usage at Red Hat Engineering

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About us

Michael Bonnet

- 15 year veteran of Red Hat
- Started in Professional Services, moved into Release Engineering.
- One of the authors of Brew/Koji.
- Technical Lead for the DevOps Development pillar.
- Avid hiker and scuba diver.



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Stanislav Ochotnický

- 7 years at Red Hat
- Worked on packaging for 4 years
- Started Fedora Java SIG
- In love with Git
- Currently working as Business Analyst



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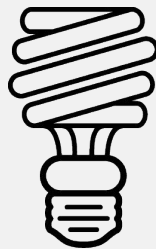
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History



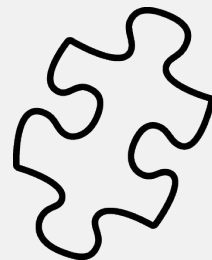
- **Three** different message buses used in engineering
- Different services on a different bus
- Most services were not on either of the three
- Inconsistent support and configuration
- No standards around topic structure
- No standards around message format
- Almost no documentation

Getting out of it



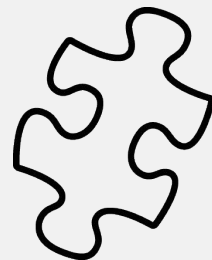
- Red Hat IT was already running Red Hat JBoss FUSE
- We partnered with IT around bus for engineering
- End goal: One Unified Message Bus
 - Highly available
 - Multi-site
 - Documented
 - Standardized
- The Plan was put into place

The Plan: Phase 1



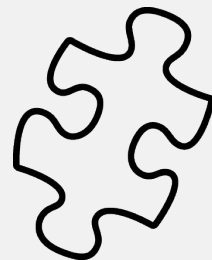
- Few critical use cases for UMB identified
 - Salesforce customer updates for changes in Bugzilla
 - Salesforce customer updates for changes in JBoss JIRA
 - Fedora messagebus receiving Bugzilla update messages
- All to do with Red Hat external infrastructure
- Static Camel routes set up for these use cases

The Plan: Phase 2



- Many more use cases all over the place
- Publish-subscribe pattern
- Hierarchy of topics was standardized
- Documentation and best practices
- Services publish to UMB in addition to old bus
- Tiered approach - critical services first
- Subscribe-only services migrating to UMB if possible

The Plan: Phase 3



- Remaining services subscribe to UMB
- Drop support for old buses and decommission them

Camel routes vs Pub-Sub



Camel routes

- + More control over message flow
- + Filtering capabilities and ACLs
- + Works with external buses

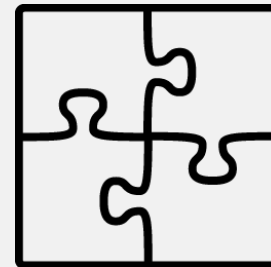
- Takes more work to setup and change
- Less control on the client side

Pub-Sub

- + Simple
- + Flexible
- + Easy to extend and change

- Easy to extend and change

Takeaways



- Take your time - you are laying foundation
- We are not pushing boundaries of FUSE with our use cases yet
- We have unique demands
- UMB is an automation enabler

Questions?



THANK YOU



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