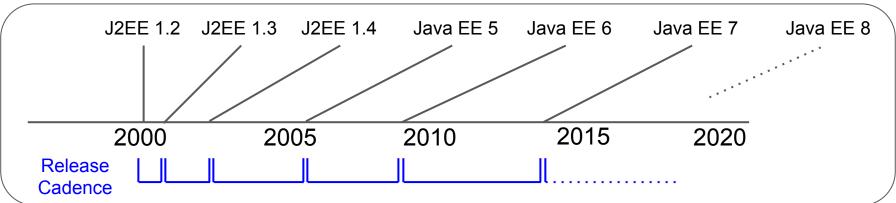


Optimizing Enterprise Java for a Microservices Architecture



Enterprise Java Standards History







Fundamental Shifts in Computing

Cloud

- Reduce time to market
- Address unpredictable loads
- Pay as you go
- Containerization





Microservices

- Deliver new features more quickly
- Smaller, more agile teams
- Deliver business features as discrete services
- Scale services independently



MicroProfile Background

- Began as a collection of independent discussions
 - Many innovative "microservices" efforts in existing Java EE projects
 - WildFly Swarm
 - WebSphere Liberty
 - Payara
 - TomEE
 - Projects already leveraging both Java EE and non-Java EE technologies
 - Creating new features/capabilities to address microservices architectures
- Quickly realized there is common ground
- Java EE technologies are already being used for microservices,
 <u>but we can do better</u>



MicroProfile Release Philosophy

Release 1.0

Rapidly iterate and innovate

Build consensus

Standardize











Bridging Community and Standards



Broad Collaboration

Encouraged experimentation

Fail Fast

Rapid innovation



Rapidly iterate and innovate

Build consensus







Vendor Choice

Implementation Choice

Application Portability

Backwards Compatibility

Reduced Risk

An Eclipse Foundation Project



- Meritocracy; vendor neutrality
- MicroProfile leadership can change over time
- Legal and technical infrastructure
- Trademark Ownership
- Accepts Apache License



MicroProfile 1.1 Underway



Configuration 1.0



Security: JWT Token Exchange 1.0



Health Check 1.0



Fault Tolerance 1.0 (Stretch goal)





Feature Backlog* - Help us prioritize [1 of 2]

- Container API
- Microservic-y annotations (Ex: @CircuitBreaker)
- Testing
- Distributed Logging
- Distributed Tracing
- OAuth2/OpenID Connect
- Microservice Security
- Service Discovery
- Health Check

- Configuration
- Metrics/Monitoring
- WebSockets
- JSON-B
- Bean Validation
- JPA
- JTA
- Concurrency Utilities for Java EE

^{*} Some Items may be removed due to lack of interest



Feature Backlog* - Help us prioritize [2 of 2]

- Messaging / Eventing
- Asynchronous/Reactive
 Support / Patterns
- Integration with Reactive / Eventing systems
- Big Data/NoSQL strong & weak consistency support
- NetFlix OSS Integration
- JCache

- JDK 8 Lambda+Streams
- EJB Lite
- Servlets
- HTTP/2
- Startup Time
- Disk Space
- Memory
- Uber-jar
- Java 9 Modularity

^{*} Some Items may be removed due to lack of interest



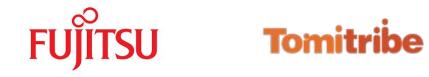
Release Schedule

MicroProfile 1.0	Move to Foundation	MicroProfile 1.1	MicroProfile 1.2	
Sep 2016	Q4 2016	2017	2017	



Join the Community!



















Join the Discussion!

https://groups.google.com/forum/#!forum/microprofile

★ 📮 Far Jar code from Spring Boot	15 posts	238 views	Phillip Webb +9
★ 💹 Micro profile criteria	2	22	Will Hartung +1
★ 🔟 What about JCache? (5)	9	45	Sebastian Łaskawiec +3
★ III What's the underlying foundation/baseline?	31	151	Maurice de Chateau +12
★ 🔟 Welcome to the MicroProfile Discussion Forum!	9	161	me +4
★ 🔟 Current poll results	2	27	Thiago Veronezi +1
★ 🔟 Getting involved / Road Map	21	198	David Blevins +9
★ 🔟 Security discussion	15	209	Arjan Tijms +7
* 🔟 Re: BeanValidation Discussion	15	222	Jean-Louis Monteiro +9
★ 🔟 Modularity	2	31	Philippe Marschall +1
★ 🔟 Are RMI and remote EJBs in the profile?	14	130	David Sharpe +12
★ I Should the microprofile be like a toolbox?	17	115	Gunnar Morling +9
★ 🔟 What about jbatch ?	11	111	Antoine Sabot-Durand +7
★ 🔟 JMS (No Broker) (2)	7	110	Jonathan Fisher +4
★ 🔟 Goals of MicroProfile	3	132	Matthew McLarty +1
* 🔟 Announcing Micro Profile	7	242	Antonio Goncalves +5



Resources

- MicroProfile.io
- MicroProfile Discussion Forum <u>bit.ly/MicroProfileForum</u>
- MicroProfile Examples
 https://github.com/microprofile/microprofile-samples

