Eclipse MicroProfile: What's it all about?

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What is Eclipse MicroProfile?

- Community of individuals, organizations and vendors
- Collaborating on an open source project
- Optimizing Enterprise Java for Microservice development
Eclipse MicroProfile 1.0

- Released September 2016
- Brought together:
  - CDI 1.2
  - JAX-RS 2.0
  - JSON-P 1.0
Eclipse MicroProfile 1.1

- Configuration 1.0
- Security: JWT Token Exchange 1.0
- Health Check 1.0
- Fault Tolerance 1.0 (Stretch goal)

Second Quarter 2017!
Configuration API

Get all the configuration properties that are visible:

```java
@Inject
Config config;
```
Configuration API

Get specific property value (static):

```java
@Inject
@ConfigProperty(name = "myProp", defaultValue = "defValue")
String myProperty;
```
Configuration API

Get specific property value (dynamic):

```java
@Inject
@ConfigProperty(name = "myProp", defaultValue = "defValue")
Provider<String> myProperty;

String getValue() {
    myProperty.get();
}
```
Possible Future Features

- Additional Microservice focused features:
  - Service Discovery
  - Tracing
  - Metrics
  - Monitoring

- Java EE 8 updates:
  - CDI 2.0
  - JAX-RS 2.1
  - JSON-P 1.1
  - JSON-B 1.0 ???

Relation to Java EE

- Consumes Java EE 7 parts
  - Java EE 8 in the future
- Innovation for Microservices in Eclipse MicroProfile
  - Funnel for possible Java EE JSRs
    - Config API
    - Fault Tolerance
    - etc
How To Get Involved?

- **Google Group for discussions**
  - [https://groups.google.com/forum/#!forum/microprofile](https://groups.google.com/forum/#!forum/microprofile)

- **Eclipse MicroProfile**
  - [https://projects.eclipse.org/proposals/eclipse-microprofile](https://projects.eclipse.org/proposals/eclipse-microprofile)

- **MicroProfile site**
  - [http://microprofile.io/](http://microprofile.io/)
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