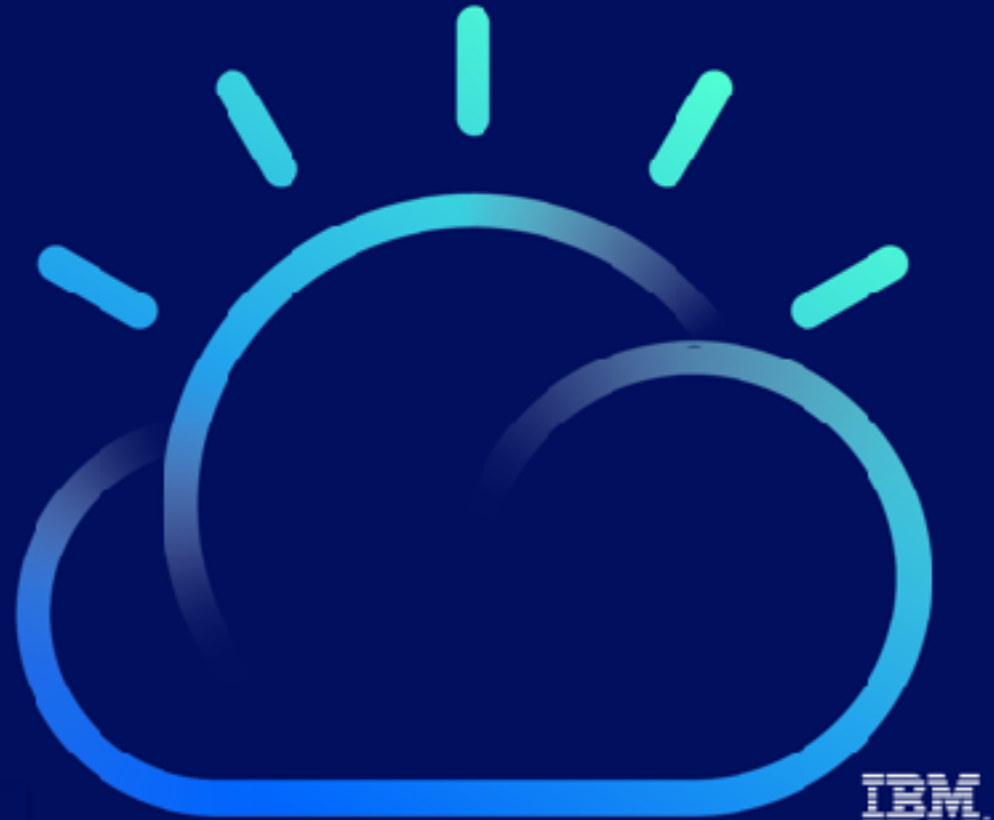


JSR 382: Config API

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Mark Struberg



JSR-382: Config JSR

- API, Spec, TCK Repo: <https://github.com/eclipse/ConfigJSR>
 - Based on microprofile-config (<https://github.com/eclipse/microprofile-config/>)
 - Renamed the package from org.eclipse.microprofile to javax.config
 - License: Apache License v2
 - Issue tracker: <https://github.com/eclipse/ConfigJSR/issues>
- Expert Group
 - 15 JCP EG
 - Eclipse Foundation (Emily Jiang, Mark Struberg),
 - IBM (Emily Jiang), Red Hat (Jeff Mesnil), Tomitribe (David Blevins, Jean-Louis Monteiro),
 - Fujitsu (Kenji Kazumura), Canoo AG (Hendrik Ebbers), Sparta Systems (John Ament),
 - Trivadis AG (Anatole Tresch), Oracle (Dmitry Kornilov, Tomas Langer),
 - Individuals: Sebastian Daschner, Tilen Faganel, Werner Keil, Ivar Grimstad
 - 3 contributors: Lilian Beniot, Hiromi Takahashi (Mitsubishi UFJ Information Technology, Ltd), Jeyvison Nascimento

JSR 382: Config API

- Formal communications
 - Gitter chat: <https://gitter.im/eclipse/ConfigJSR>
 - Weekly calls (webex meeting) on Thursdays 3-4pm UK time
 - Mailing list:
 - Expert Group mailing list: configJsr-experts@eclipse.org
 - Discussion mailing list: configjsr-discuss@eclipse.org

JSR382: Config API 1.0

- Why?

- Configure applications without repacking them; write once run/config everywhere

- How?

- Specify the configuration in configure sources, such as environment variables, system properties, javaconfig.properties, other custom config sources

- The config sources have associated ordinal to denote its ranking

- Access configuration via

- Programmatically lookup

- ```
Config config = ConfigProvider.getConfig();
config.getValue("myProp", String.class);
```

- Via CDI Injection

- ```
@Inject @ConfigProperty(name="my.string.property") String myPropV;
```

JSR 382: Config API

- Static Config

```
@Inject
```

```
@ConfigProperty(name="myStaticProp")
```

```
private String staticProp;
```

- Dynamic Config

```
@Inject
```

```
@ConfigProperty(name="myDynamicProp")
```

```
private Provider<String> dynamicProp;
```

```
javaconfig.properties  
myStaticProp=defaultSValue  
myDynamicProp=defaultDValue
```

```
Java Options  
-DmyStaticProp=customSValue  
-DmyDynamicProp=customDValue
```

overrides

JSR 382: Config API

- Optional Config

```
Config config = ConfigProvider.getConfig();  
config.getOptionalValue("myProp",  
String.class).orElse("myDefault");
```

@Inject

```
@ConfigProperty(name="myStaticProp", defaultValue="blah")  
private String staticProp;
```

@Inject

```
@ConfigProperty(name="myDynamicProp")  
private Optional<String> dynamicProp;
```

JSR 382: Config API

- Array support

myPets=dog,cat,dog\\,cat specified in a config source

```
private String[] myPets = config.getValue("myPets", String[].class);

@Inject @ConfigProperty(name="myPets") private String[] myArrayPets;
@Inject @ConfigProperty(name="myPets") private List<String> myListPets;
@Inject @ConfigProperty(name="myPets") private Set<String> mySetPets;
```

-
- Upcoming features (<https://github.com/eclipse/ConfigJSR/milestone/1>)
 - Dynamic config sources - pushing vs. polling model
 - Define a mapping rule from config property name to environment variables
 - Support common sense converters



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