

Eclipse MicroProfile 1.1

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Chapter 1. Architecture

The MicroProfile BOM will identify the contents of each MicroProfile release. The contents will be those features and versions agreed to by the MicroProfile community. These features may be external to the MicroProfile community (Java EE features such as JAX-RS 2.0), or they be a component of the MicroProfile project (such as Config 1.0).

Since the MicroProfile BOM is an "umbrella" project, there will be no individual API or TCK generated for this component. Only this Specification will be generated and maintained to document the contents of each release.

In reverse chronological order, here's the specification for each MicroProfile release.

1.1. MicroProfile 1.1 (3Q2017)

MicroProfile 1.1 is the first release since becoming an [Eclipse project](#).

Based on our time-boxed process, the content for MicroProfile 1.1 will be all of [MicroProfile 1.0](#), plus [MicroProfile Config 1.0](#).

The Maven coordinates for this Eclipse release are as follows:

```
<dependency>
  <groupId>org.eclipse.microprofile</groupId>
  <artifactId>microprofile-bom</artifactId>
  <version>1.1.0</version>
  <type>pom</type>
  <scope>provided</scope>
</dependency>
```

Here is the link to [the github repository](#) for this Eclipse-based project.

1.2. MicroProfile 1.0 (JavaOne 2016)

MicroProfile 1.0 was released prior to becoming an Eclipse project. MicroProfile 1.0 consisted of [JAX-RS 2.0](#), [CDI 1.2](#), and [JSON-P 1.0](#) — all of these are Java EE 7 specifications.

The Maven coordinates for this non-Eclipse release are as follows:

```
<dependency>
  <groupId>io.microprofile</groupId>
  <artifactId>microprofile</artifactId>
  <version>1.0.0</version>
  <type>pom</type>
  <scope>provided</scope>
</dependency>
```

Here is the link to [the github repository](#) for this original effort.

Chapter 2. Required APIs

Compliant implementations of Eclipse MicroProfile 1.1 must provide at least the following APIs and minimum versions. These APIs and versions guarantee application developers a minimum set of APIs and are not intended to be restrictive. Implementations may include APIs not listed below as well they may support more recent versions that what is listed below.

MicroProfile applications that make use of APIs or versions not mentioned below are not considered portable.

- Java SE 8
- Contexts and Dependency Injection for Java EE (CDI) 1.2
- JAX-RS 2.0.1
- JSON-P 1.0
- Eclipse MicroProfile Config 1.0

2.1. Java SE 8

Libraries in use by the MicroProfile leverage new features provided in Java SE 8, therefore Java SE 7 and before are unsupported. MicroProfile 1.1 implementations may provide support for Java SE 9 and beyond, however Java SE 8 compatibility must maintained.

2.2. Contexts and Dependency Injection for Java EE (CDI) 1.2

CDI provides the base for a growing number of APIs included in MicroProfile 1.1. Use of implementations beyond CDI 1.2 in MicroProfile is allowed, however, not required as of version 1.1 of MicroProfile.

- <http://cdi-spec.org/>
- <https://jcp.org/en/jsr/detail?id=346>

2.3. JAX-RS 2.0.1

JAX-RS provides both standard client and server APIs for RESTful communication by MicroProfile 1.1 applications. Use of implementations beyond JAX-RS 2.0.1 in MicroProfile is allowed, however, not required as of version 1.1 of MicroProfile.

- <https://github.com/jax-rs>
- <https://jcp.org/en/jsr/detail?id=339>

2.4. Java™ API for JSON Processing (JSON-P) 1.0

JSON-P is leveraged as part of MicroProfile 1.1 to provide standard APIs for processing JSON

documents. Use of implementations beyond JSON-P 1.0 in MicroProfile is allowed, however, not required as of version 1.1 of MicroProfile.

- <https://javaee.github.io/jsonp/>
- <https://jcp.org/en/jsr/detail?id=353>

2.5. Eclipse MicroProfile Config 1.0

Eclipse MicroProfile Config provides applications and microservices means to obtain configuration properties through several environment-aware sources both internal and external to the application and made available through dependency injection or lookup.

- <http://microprofile.io/project/eclipse/microprofile-config>
- <https://github.com/eclipse/microprofile-config/releases/tag/1.0>

Chapter 3. Notices

3.1. Compatibility Disclaimer

APIs originating from the Eclipse MicroProfile community, such as Config 1.0, should be considered pre-standard and experimental in nature. While these APIs are developed collaboratively and generally considered best-of-breed, the MicroProfile community reserves the right to make backwards incompatible changes based on substantial user feedback.

It is the overarching goal of the Eclipse MicroProfile community to iterate quickly and prioritize innovation over legacy. Thus, APIs included are offered with the express purpose of feedback and rapid innovation through proven real-world usage. Developers should use these APIs with this knowledge in mind and are encouraged to provide feedback of any kind, including proposals of fundamental change to the design of the APIs themselves.

3.2. Contribution

The Eclipse MicroProfile community is an open source community part of the Eclipse Foundation. We accept contributions from corporations or individuals. To learn how to contribute to the Eclipse MicroProfile see:

- <https://wiki.eclipse.org/MicroProfile/FeatureInit>

3.3. Feedback

Comments, questions or feedback on this document should be directed to The Eclipse MicroProfile community as a whole at microprofile@googlegroups.com. Archives are available via the Google Group page:

- <https://groups.google.com/forum/#!forum/microprofile>