

# MicroProfile 6.0

22nd Dec, 2022



[MicroProfile Community](#)



# What is MicroProfile?



- MicroProfile is an open-source community specification for Enterprise Java microservices
- A community of individuals, organizations, and vendors collaborating within an open source Eclipse Foundation Working Group to bring microservices to the Enterprise Java community

# MicroProfile Working Group



- In October 1st, 2020, MicroProfile became a member of the [Eclipse Working Group](#) to close its intellectual property gap
- The [MicroProfile Charter](#) defines the MicroProfile Working Group vision and scope, governance, membership, and more.
- MicroProfile component specifications follow the [MicroProfile Specification Process](#), a compatible specialization of the Eclipse Specification Process.
- [MicroProfile 4.1](#) is the first release delivered under the [MicroProfile Working Group](#) with compatible implementation declared

# Release Compatible Implementation



## Defined the compatible implementation for MicroProfile 6.0

- [Required] Passing the 8 MicroProfile Specification TCKs and Jakarta EE 10 Core Profile TCKs
  - [MicroProfile Config 3.0](#)
  - [MicroProfile Fault Tolerance 4.0](#)
  - [MicroProfile Health 4.0](#)
  - [MicroProfile JWT Authentication 2.1](#)
  - [MicroProfile Metrics 5.0](#)
  - [MicroProfile OpenAPI 3.0](#)
  - [MicroProfile Telemetry 1.0](#)
  - [MicroProfile Rest Client 3.0](#)
  - [Jakarta EE 10 Core Profile](#)
- Use Java SE 11 or higher

# Working Group Corporate Members



# Current MicroProfile Implementations



# MicroProfile 6.0 Released!

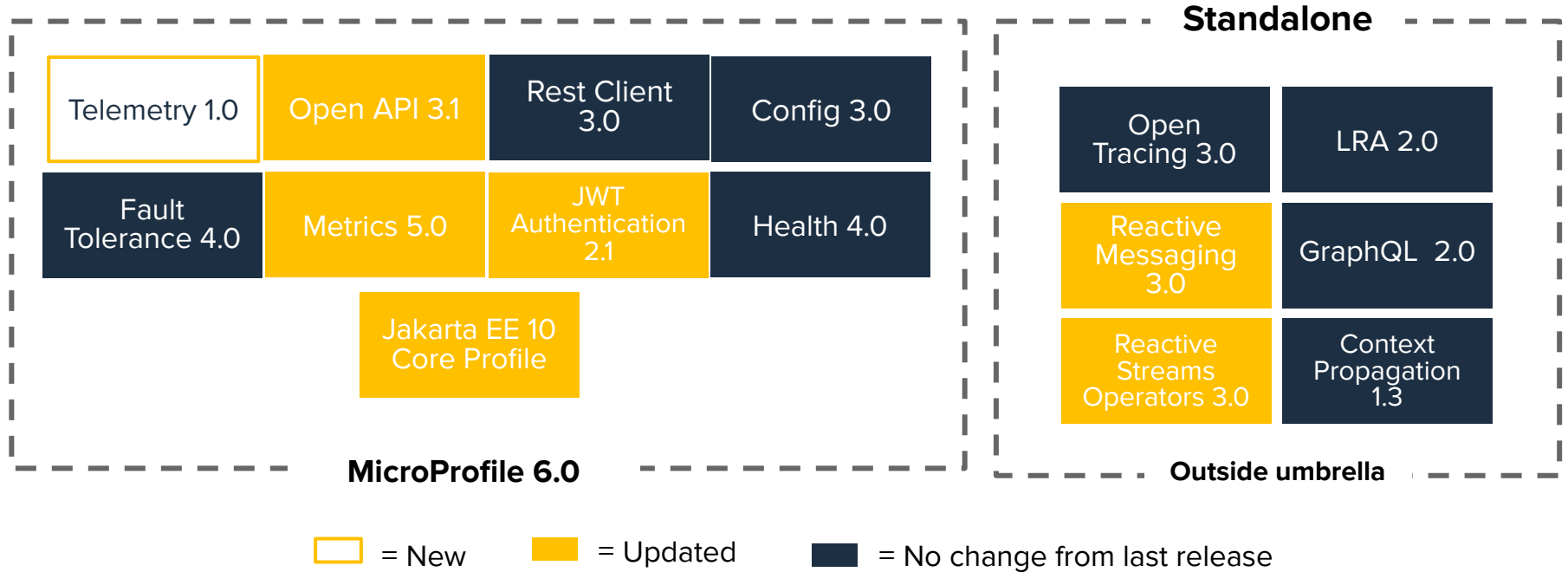


Released Dec 22nd, 2022

Offered in the release:

- Updated 4 MicroProfile Component specifications (Telemetry, Metrics, JWT and OpenAPI) and adopts Jakarta EE 10 Core Profile
- [Release](#)

# MicroProfile Releases in 2022





# MicroProfile Config 3.0



*Provides an easy to use and flexible system for application configuration*

- What's new
  - Only TCK was updated to allow it running with either Jakarta EE 10 Core Profile or Jakarta EE 9.1

# MicroProfile Fault Tolerance 4.0



*Defines easy to use and flexible APIs for building resilient applications*

- What's new
  - Only TCK was updated to allow it running with either Jakarta EE 10 Core Profile or Jakarta EE 9.1

# MicroProfile Health 4.0



*Expose the availability of a MicroProfile runtime to underlying platform*

- What's new
  - Only TCK was updated to allow it running with either Jakarta EE 10 Core Profile or Jakarta EE 9.1

# MicroProfile JWT Authentication 2.1



*Using OpenID Connect(OIDC) based JSON Web Tokens(JWT) for role based access control(RBAC) of microservice endpoints.*

What's new

- Updated to use Jakarta EE 9 dependencies
- Specification [release](#) ([changes](#))

*Define custom application metrics and expose platform metrics on a standard endpoint using standard formats*

What's new

- Supports multi-dimensional metrics
- Enable application application metrics to be grouped in custom scopes and allows querying of metrics by those scopes
- Backwards Incompatible changes
  - [More ...](#)
- Specification [release](#) ([changes](#))

# MicroProfile Telemetry 1.0



*Trace request flows between service boundaries*

What's new

- Supports automatic tracing; manual tracing and agent instrumentation
- Provide integration with CDI, which allows Tracer, Span, Baggage to be injected
- New Specification [release](#)

# MicroProfile OpenAPI 3.1



*Provides Java interfaces and programming models to natively produce OpenAPI v3 documents from JAX-RS applications*

What's new

- Specification [release](#) ([changes](#))

# MicroProfile Rest Client 3.0



*Type-safe rest client defined as Java interfaces*

## What's new

- Updated to fix a potential CVE
- Specification [release](#)



- Generate MicroProfile projects
- Visual Studio Code plugin
- IntelliJ Plugin
- Command line tooling

## MicroProfile Starter

Generate MicroProfile Maven Project with Examples

groupId \*

artifactId \*

MicroProfile Version

Java SE Version

Project Options

Build Tool  Maven  Gradle

Examples for specifications

MicroProfile Runtime \*

[DOWNLOAD](#)

# MicroProfile Reactive Capabilities



## [MicroProfile Reactive Streams Operators](#)

A set of operators to create new reactive streams, process the transiting data and consume them with ease

## [MicroProfile Reactive Messaging](#)

Defines a development model for declaring CDI *beans* producing, consuming and processing messages. It relies on Reactive Streams Operators and CDI

## [MicroProfile Context Propagation](#)

APIs for propagating contexts across units of work that are thread-agnostic

### [Reactive Streams Operators 3.0](#)

- [Project page](#)
- [Spec PDF doc](#)
- [Spec HTML doc](#)
- Technology Compatibility Kit ([TCK](#))

### [MicroProfile Reactive Messaging 3.0](#)

- [Project page](#)
- [Spec PDF doc](#)
- [Spec HTML doc](#)
- Technology Compatibility Kit ([TCK](#))

### [Context Propagation 1.3](#)

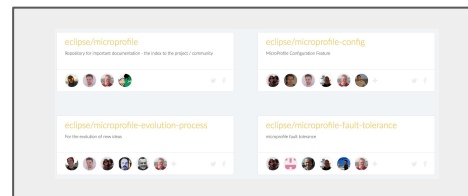
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## Standalone Specifications

# Get Involved!



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General community  
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# MicroProfile

