

# Enterprise Java Standards

## Current and Future



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February, 2023



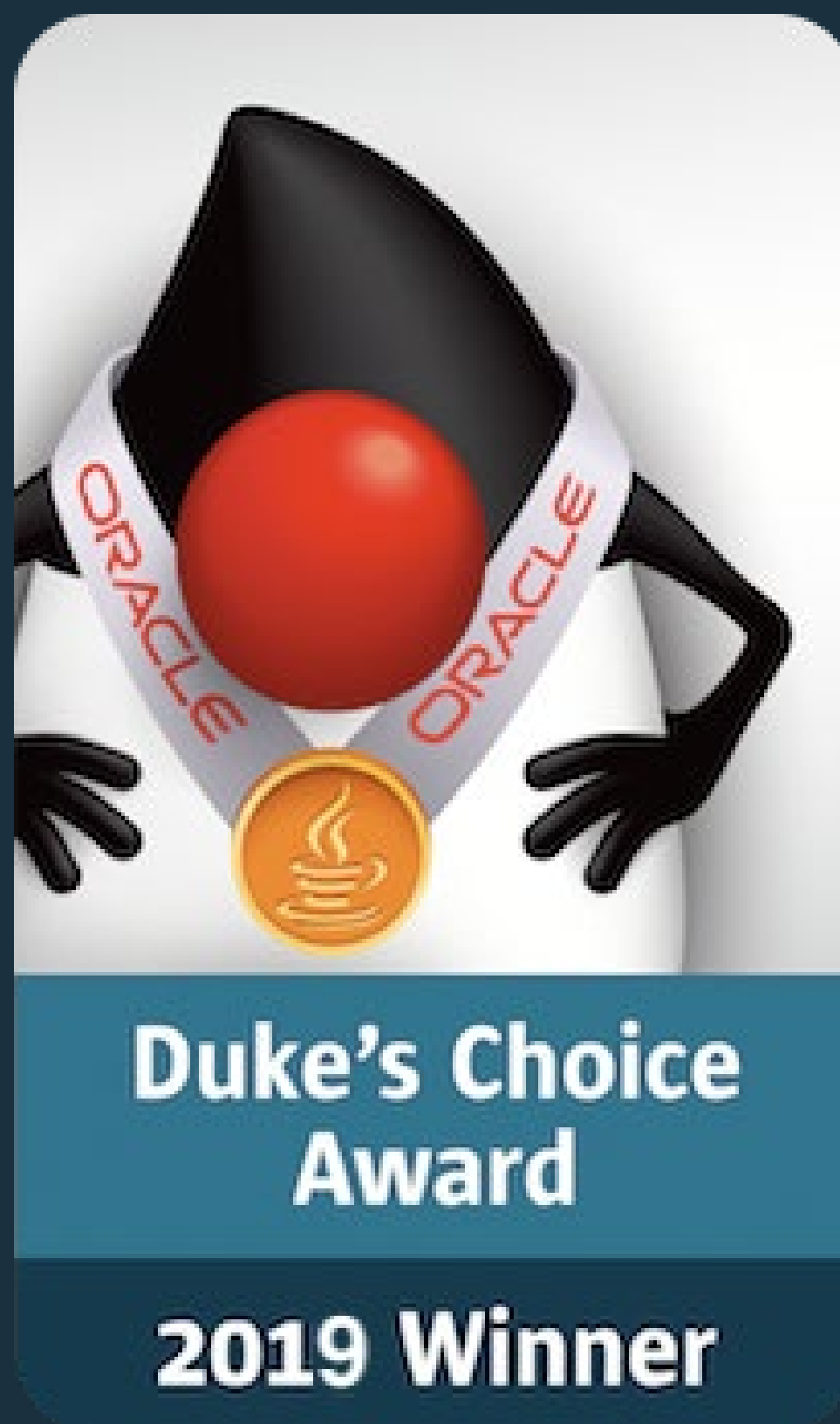
# Jakarta EE and MicroProfile – A Powerful Collaboration

- Complementary initiatives at the Eclipse Foundation
- APIs built on Java for enterprise applications
  - Jakarta EE innovates Enterprise Java platform
  - MicroProfile innovates using a set of Jakarta APIs and Cloud Native Technologies
- Shared specification process framework for IP
- Engagement and collaboration across initiatives
- Vendors supporting both technologies
- Customers using both technologies
- Choices, innovation, investment protection
- No vendor lock-in





# Jakarta EE



Open Specifications for Enterprise Java Development

The evolution and innovation of enterprise Java technologies under an open, vendor-neutral process

Delivers open source Full Platform, Web Profile and Core Profile specifications, related Technology Compatibility Kits (TCKs), and compatible implementations

Hosted at the Eclipse Foundation

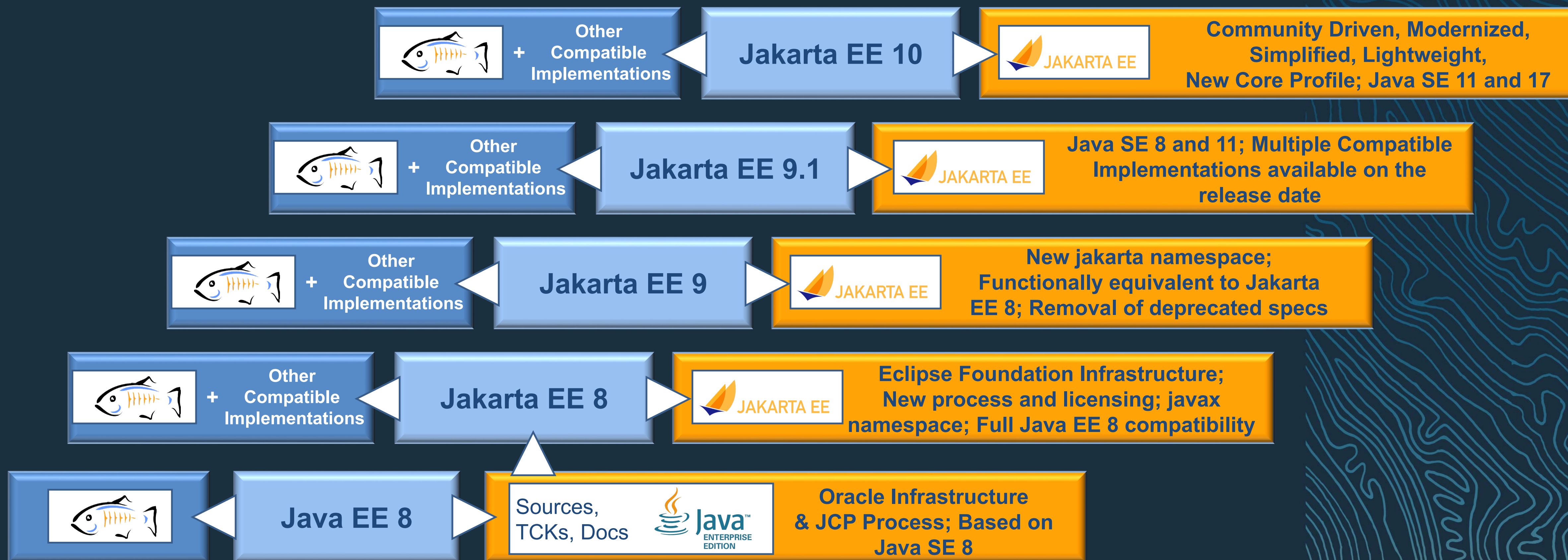
[www.jakarta.ee](http://www.jakarta.ee)





# The Evolution of Java EE to Jakarta EE

Jakarta EE 10 - Released September 2022





# Jakarta EE Membership and Compatible Implementations

## Strategic Member



## Enterprise Member



## Participant Member



## Working Group Members

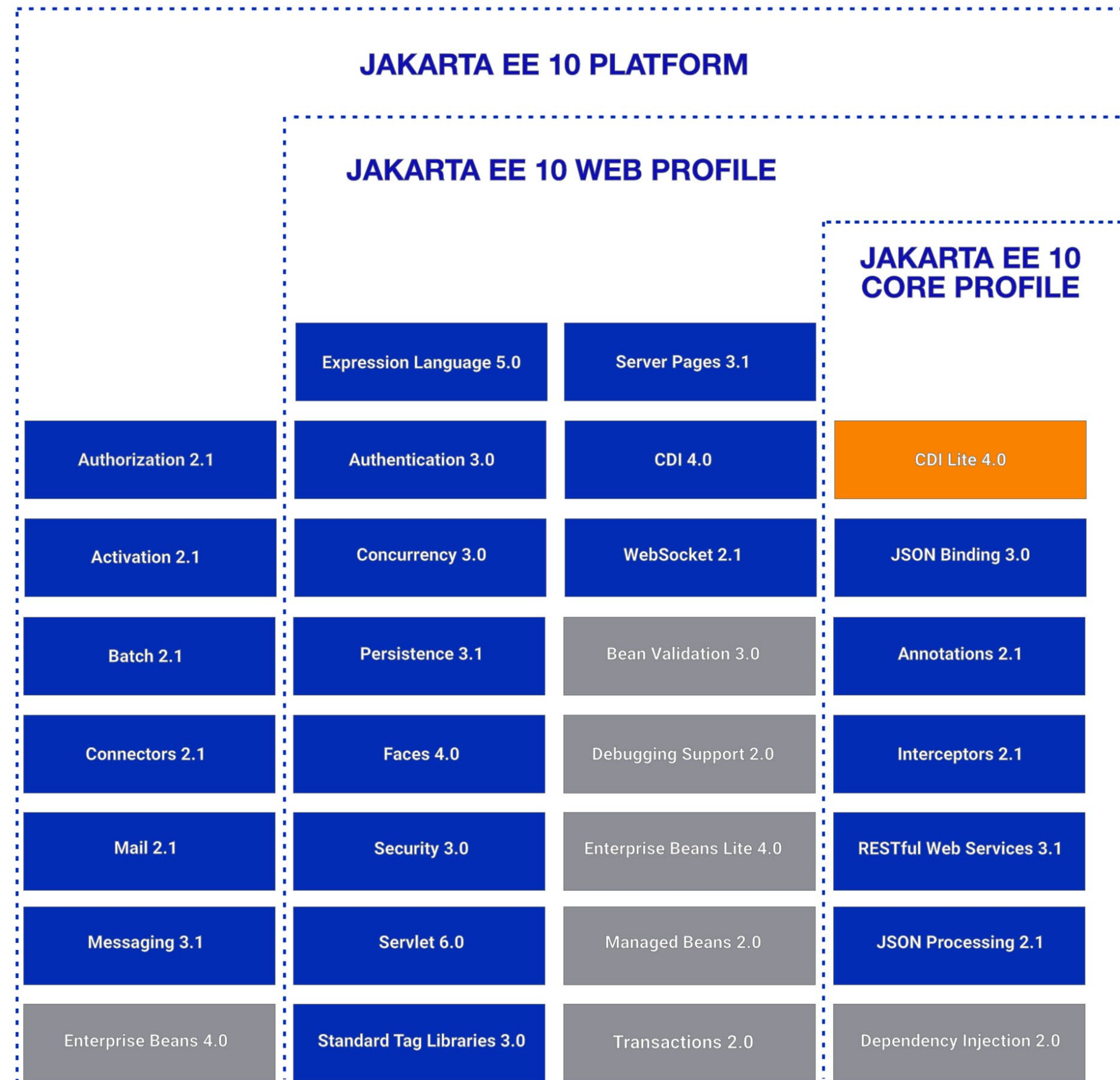
## Compatible Implementations





# Jakarta EE 10

- Modernized
  - Over 20 specification updates
  - Java SE 11 and 17
- Simplified
  - Broader use of annotations
  - Security improvements
  - Deprecated APIs removed
- Lightweight
  - Core Profile



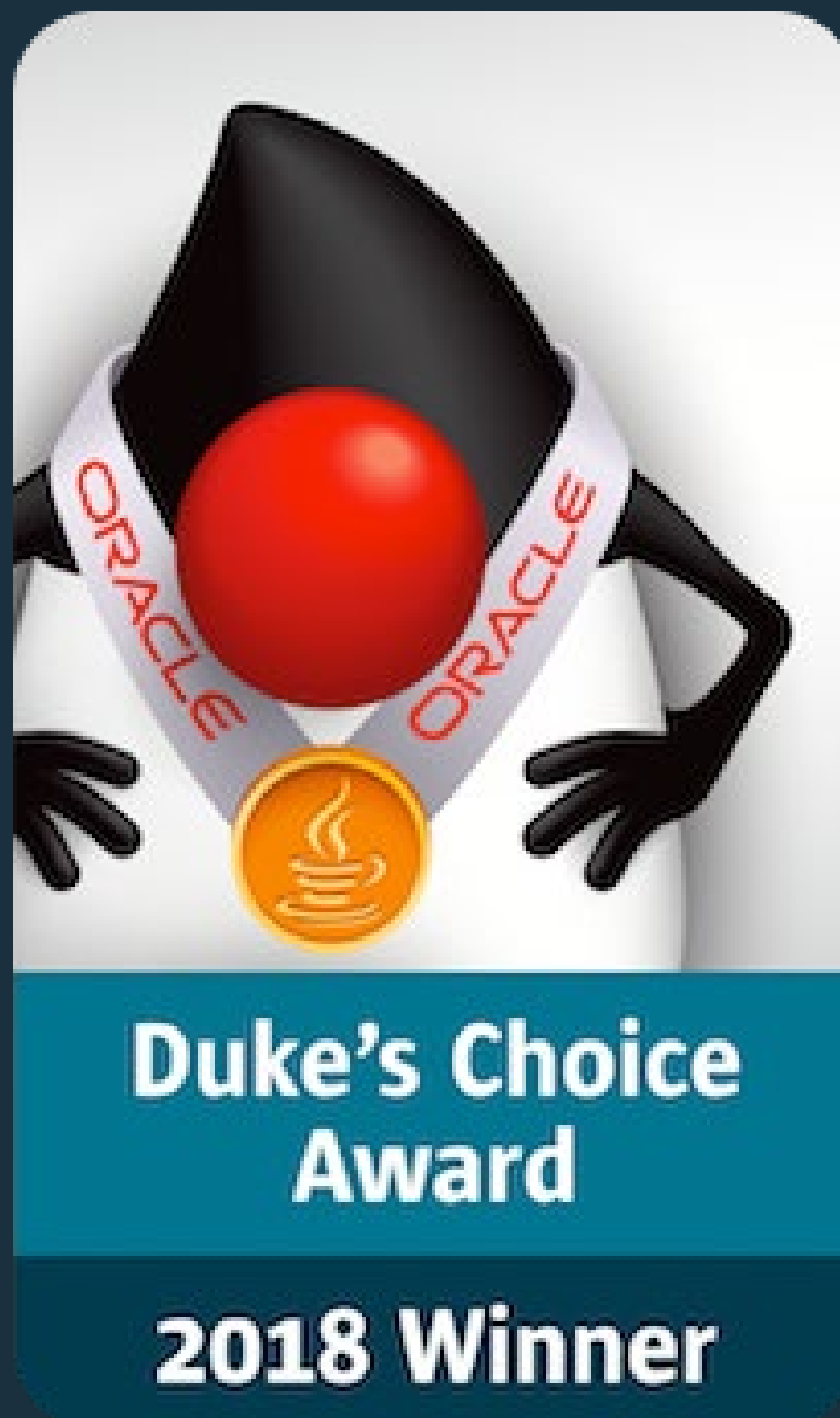


# Coming Next – Jakarta EE 11

- Just getting started
- General guidelines defined with community input
- Target Java SE 21
- Target GA - Q1 2024
- Priorities
  - Unified APIs improving developer experience
  - New Specifications
  - Built on the latest Java
  - Enable Community Collaboration



# MicroProfile



## Open Specifications for Enterprise Java Microservices

- Designed to run microservices with reliability, availability, scalability, and performance
- Delivers application portability across multiple MicroProfile runtimes
- Leverages Java EE/Jakarta EE developers' existing skill set
- Hosted at the Eclipse Foundation
- [microprofile.io](https://microprofile.io)



# MicroProfile Background

- Open Source Community Project launched June 2016
- Joined Eclipse Foundation January 2017
- Found success
  - Extending capabilities of Jakarta EE application servers, and
  - Enabling a new class of microservices-centric runtimes
- Targets 3 annual releases
- Most current release is MicroProfile 6.0 - December 2022



# MicroProfile Membership and Implementations



Working Group Corporate Members

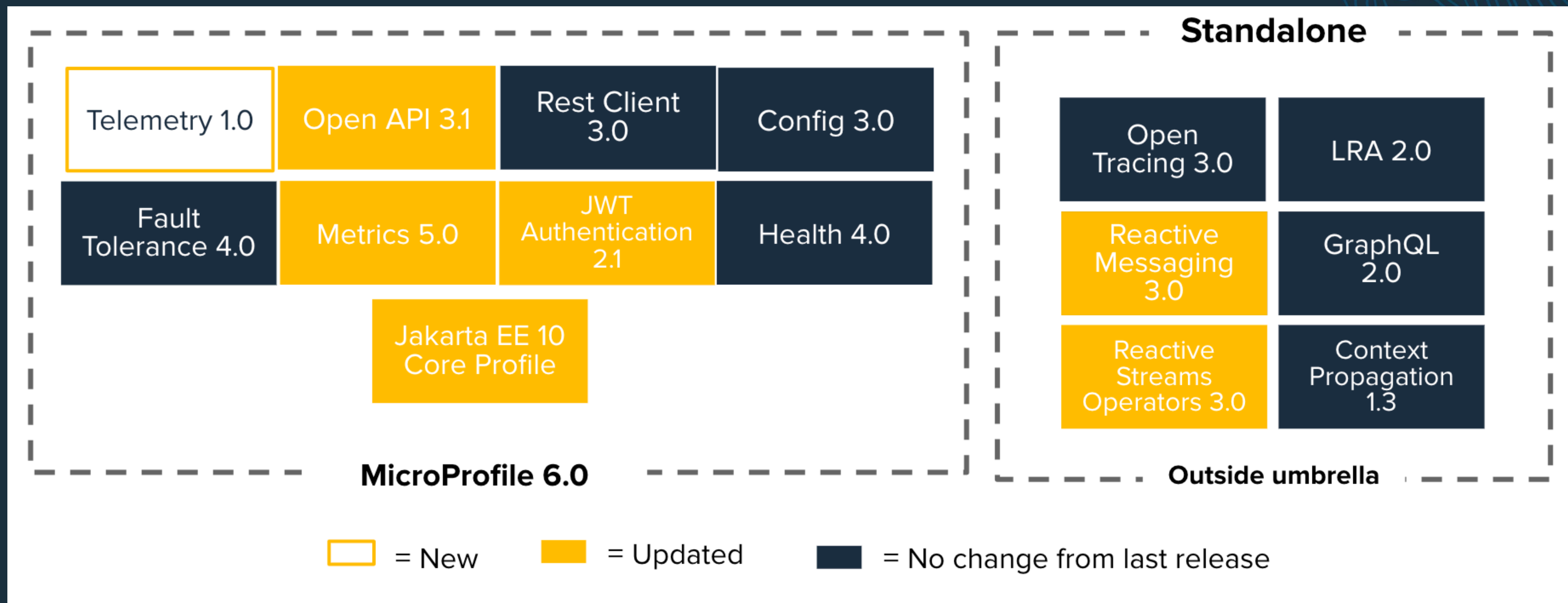


Implementations





# MicroProfile 6.0 Component Specification Updates

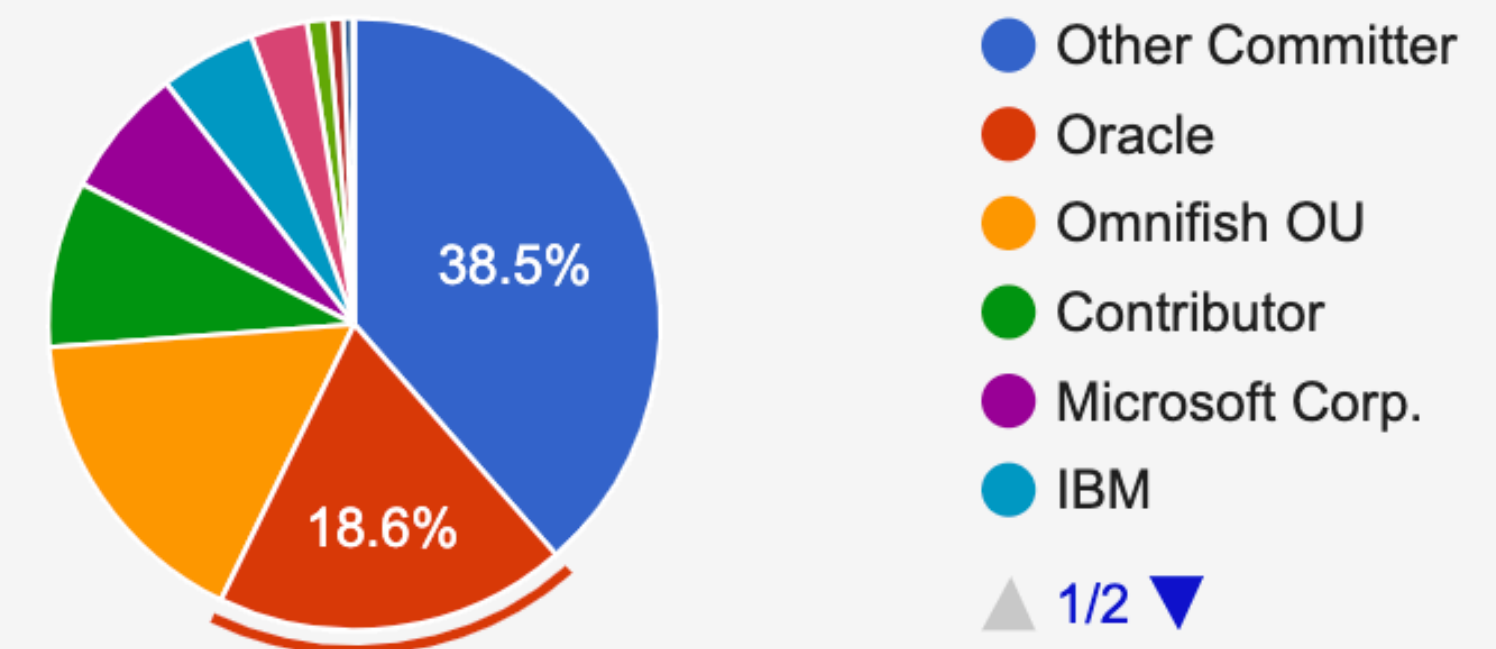




# Oracle, Jakarta EE and Microprofile

- Supporting open processes for Enterprise Java
- Jakarta EE
  - Strategic member since inception in 2017
  - Contributed majority of specifications, GlassFish implementation, TCKs
  - Ongoing contributions to Working Group
- MicroProfile
  - Member since 2017
  - Ongoing contributions to Working Group

Organization Contributions Last 3 Months  
(Jakarta EE/EE4J projects)



<https://projects.eclipse.org/projects/ee4j/who>



# Oracle Enterprise Cloud Native Java Products

## Leveraging Jakarta EE and MicroProfile

- Enterprise Container Platform
- Polyglot architectures
- Multi-cloud



**ORACLE**  
WebLogic Server

**ORACLE**  
Coherence



- Java-based
- Cross-product integration
- Integration with other Java technologies



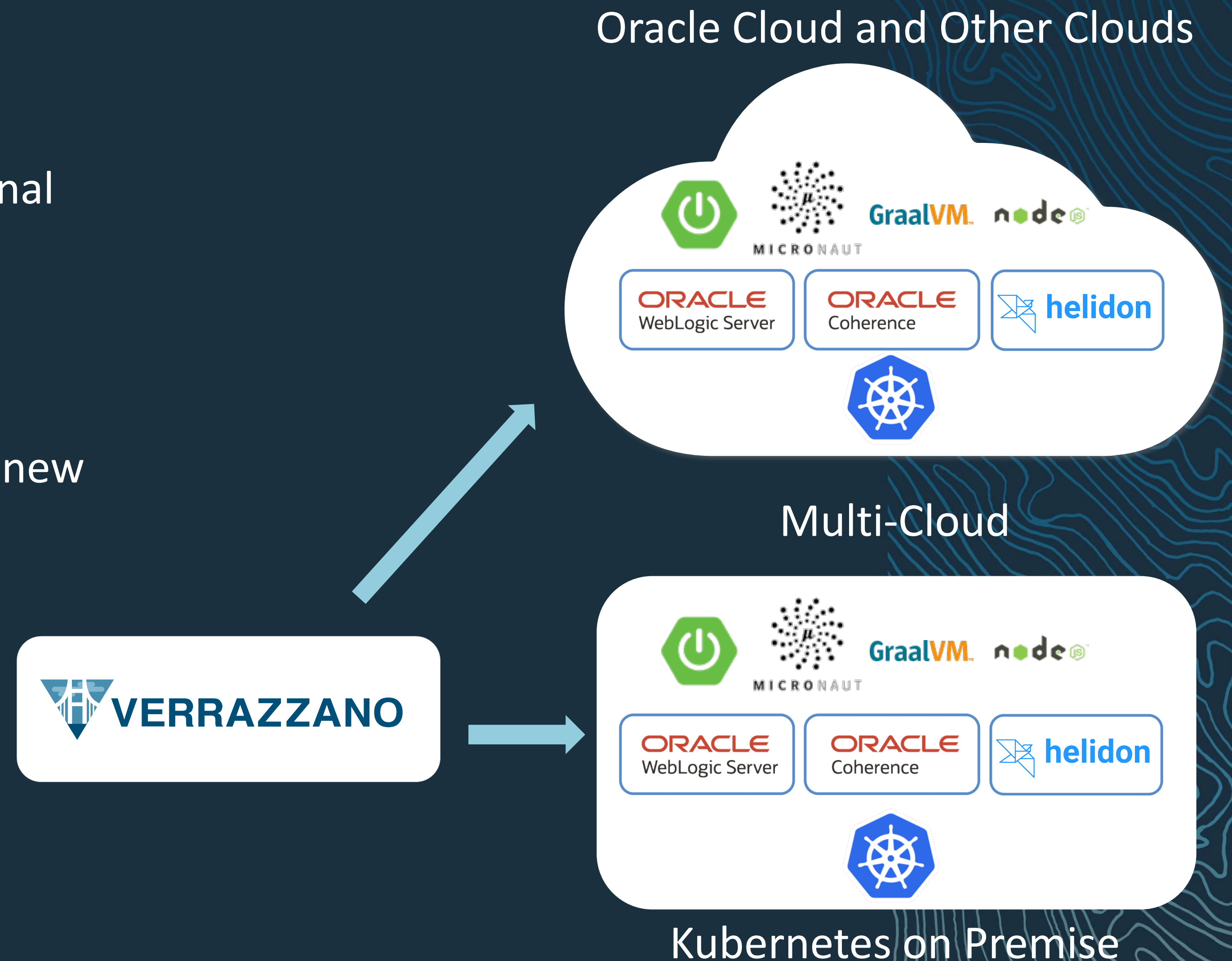
- Traditional apps and microservices
- Containers and Kubernetes
- Private and public clouds



# Oracle Enterprise Cloud Native Java Products

## Enabling Application Modernization

- Build and deploy containerized traditional Jakarta EE applications
- Build and deploy new microservices applications
- Unify management across existing and new applications
- With multi-cloud support, and
- ...Open runtime support





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# Thank You!