

CN4J

**Jakarta EE & MicroProfile
Relation**

2023-01-31 Jan Westerkamp

Agenda

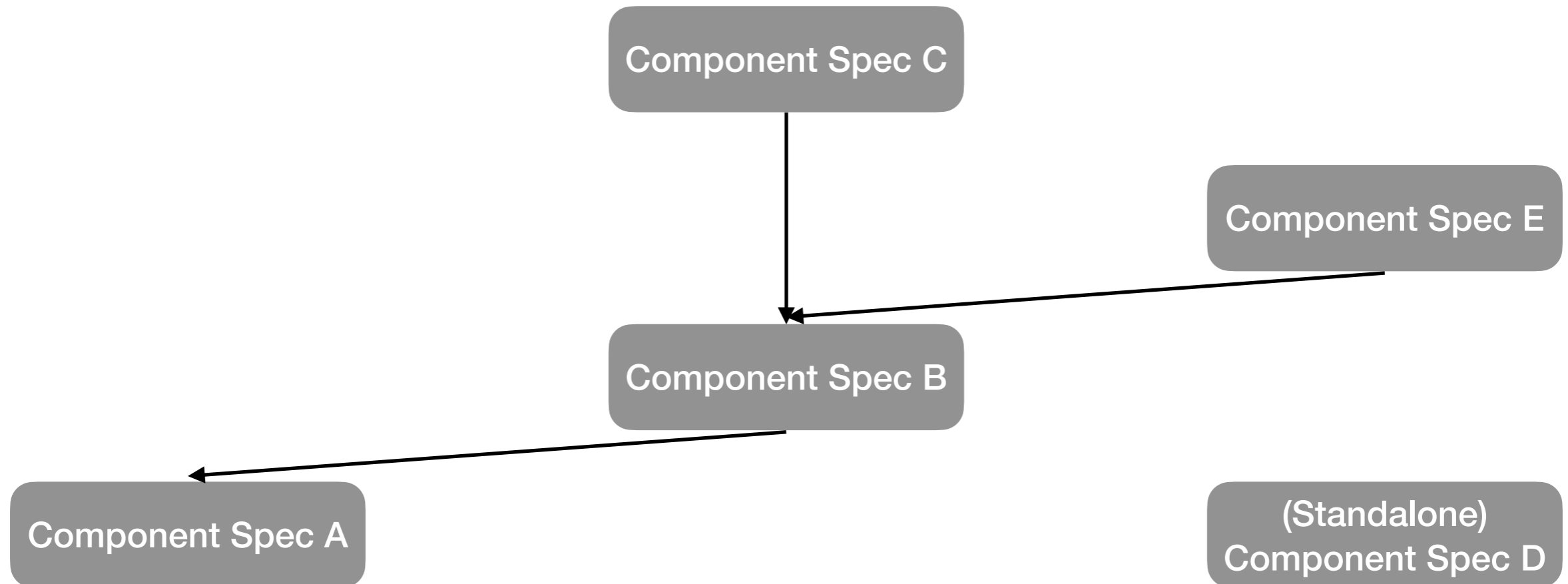
- Organisations
- Component Specs
- Implementations
- Umbrella Specs (Profiles/
Platform)
- Jakarta EE & MicroProfile
- CN4J Roadmap
- Issues & Solutions
- Continuous Integration
- MicroProfile Parent
- MicroProfile Metrics
- Jakarta EE Platform
- Jakarta Security &
MicroProfile JWT
- Jakarta Config & MicroProfile
Config
- Security Issues

Organisations

- Eclipse Foundation
 - Jakarta EE Working Group
 - MicroProfile Working Group
 - CN4J Association
- Broadcom
 - VMware
 - VMware Tanzu (Pivotal)
- Other (Implementation providers)

Component Specs

Release order



Component Specs

Release order



Component Spec D

Component Spec C

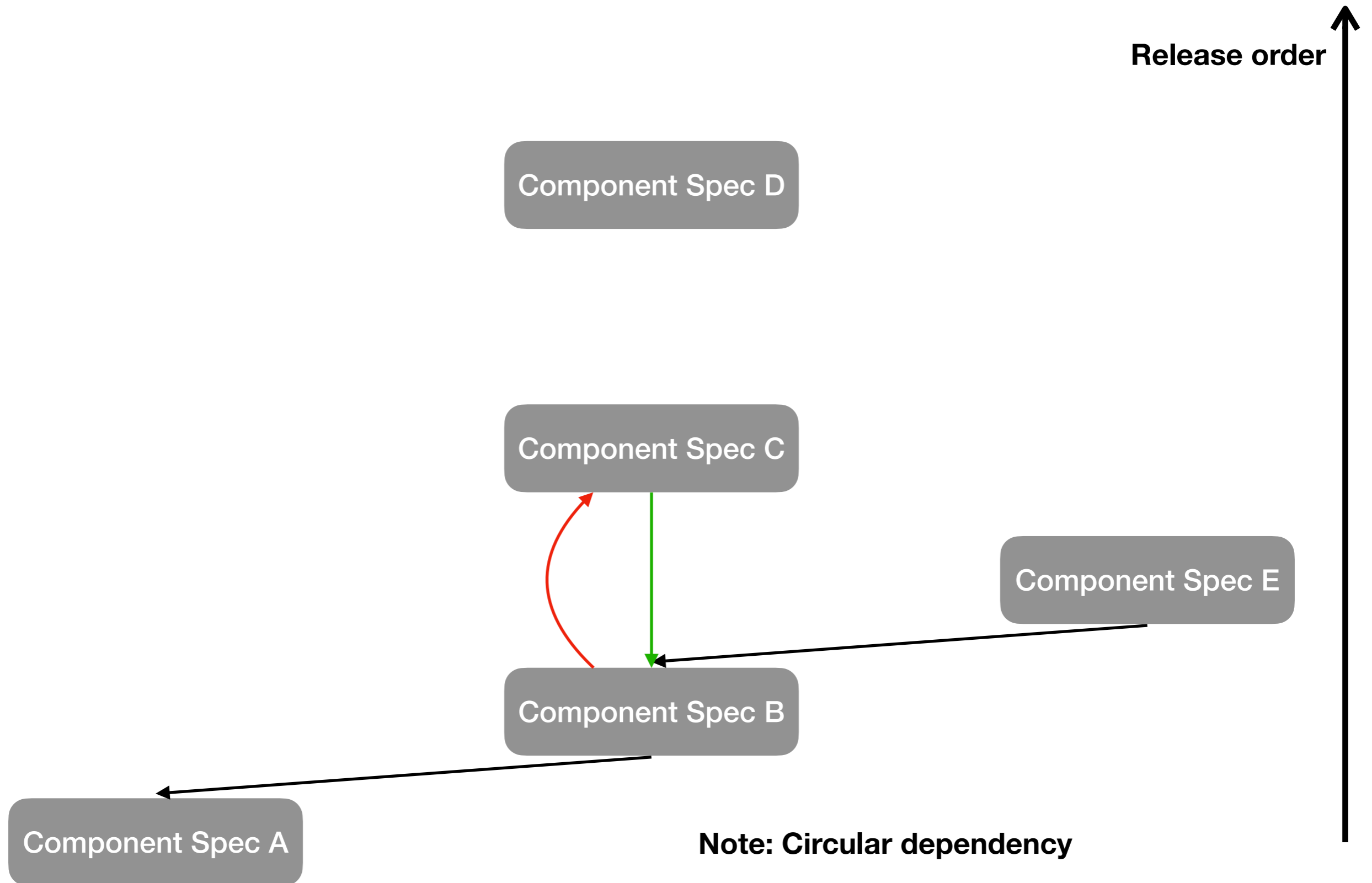
Component Spec E

Component Spec B

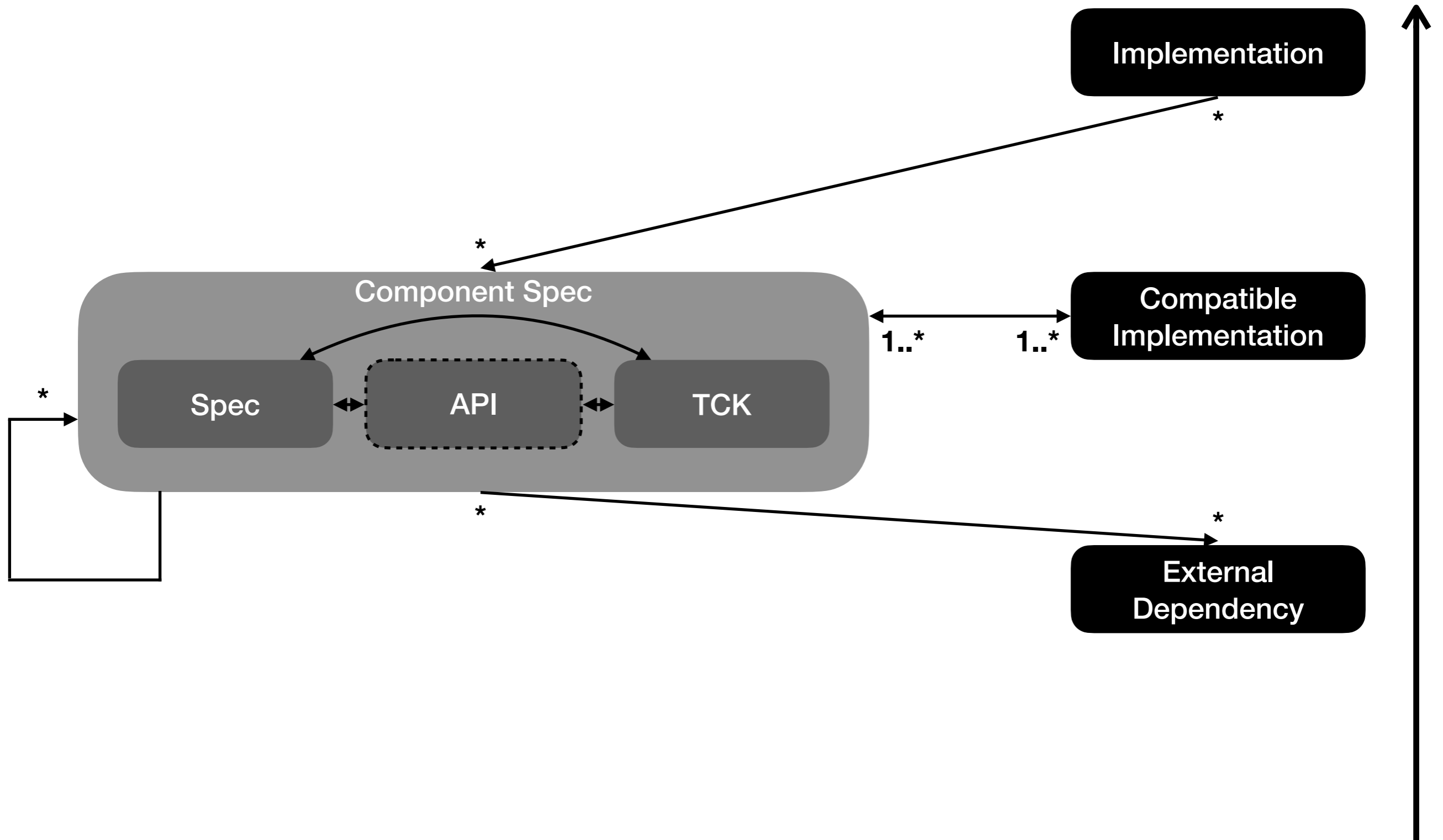
Component Spec A



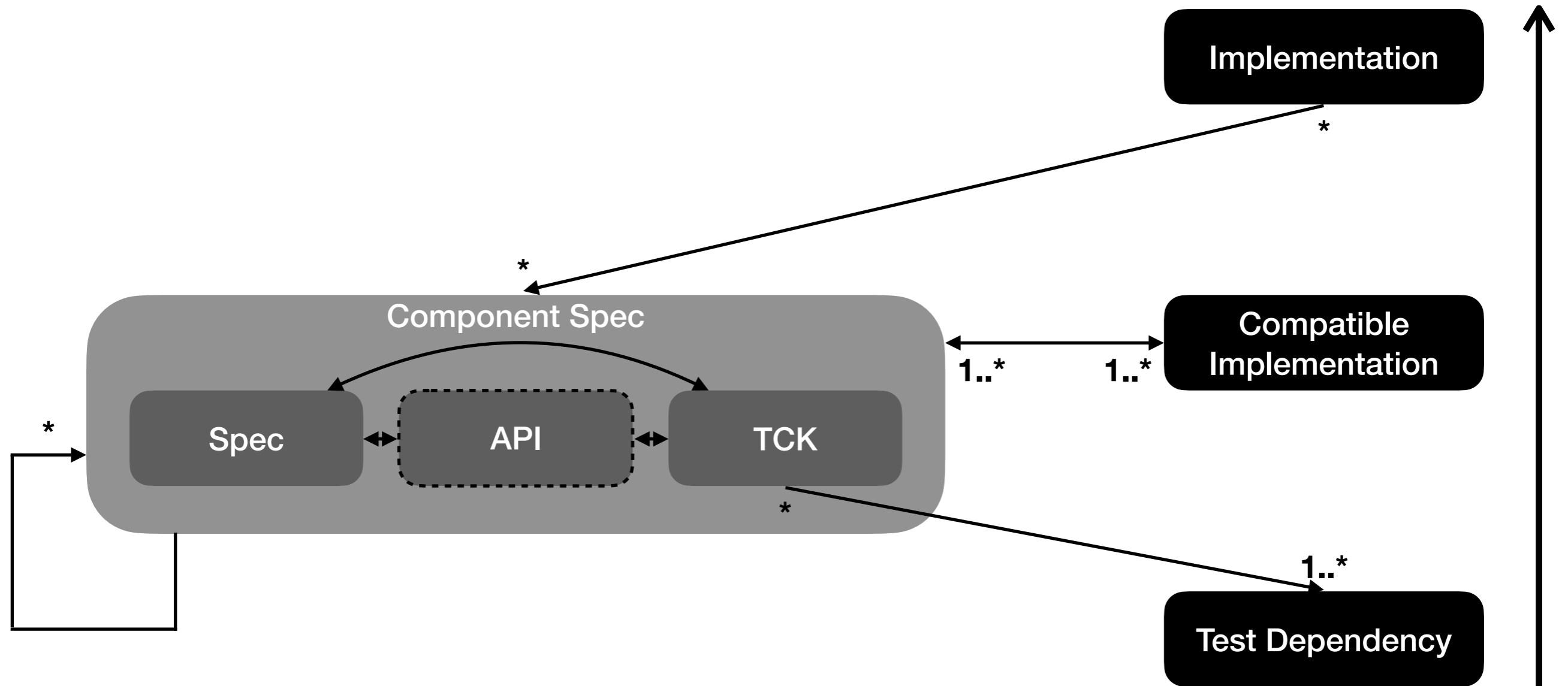
Component Specs



Component Spec Detail

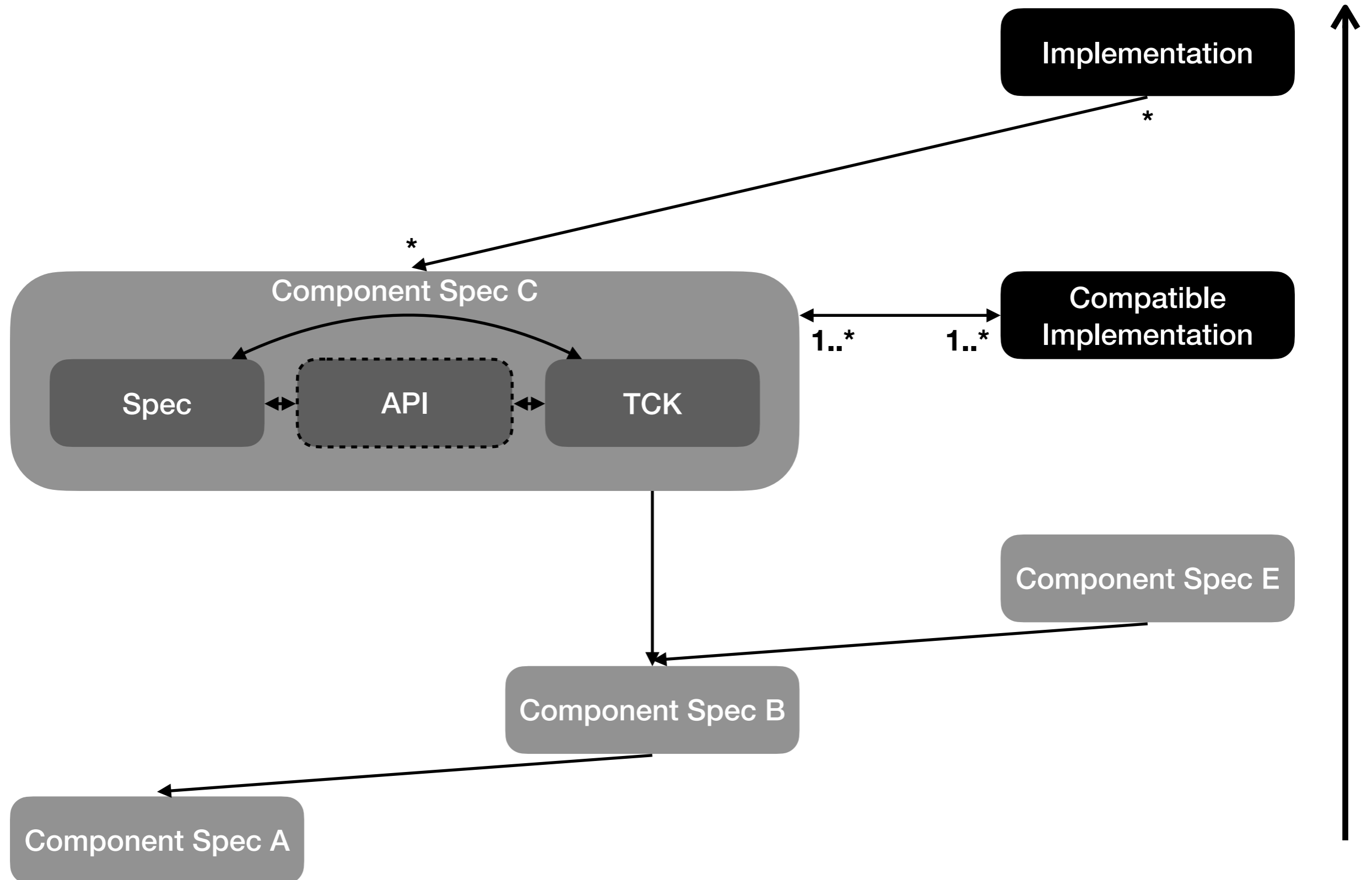


Component Spec Detail

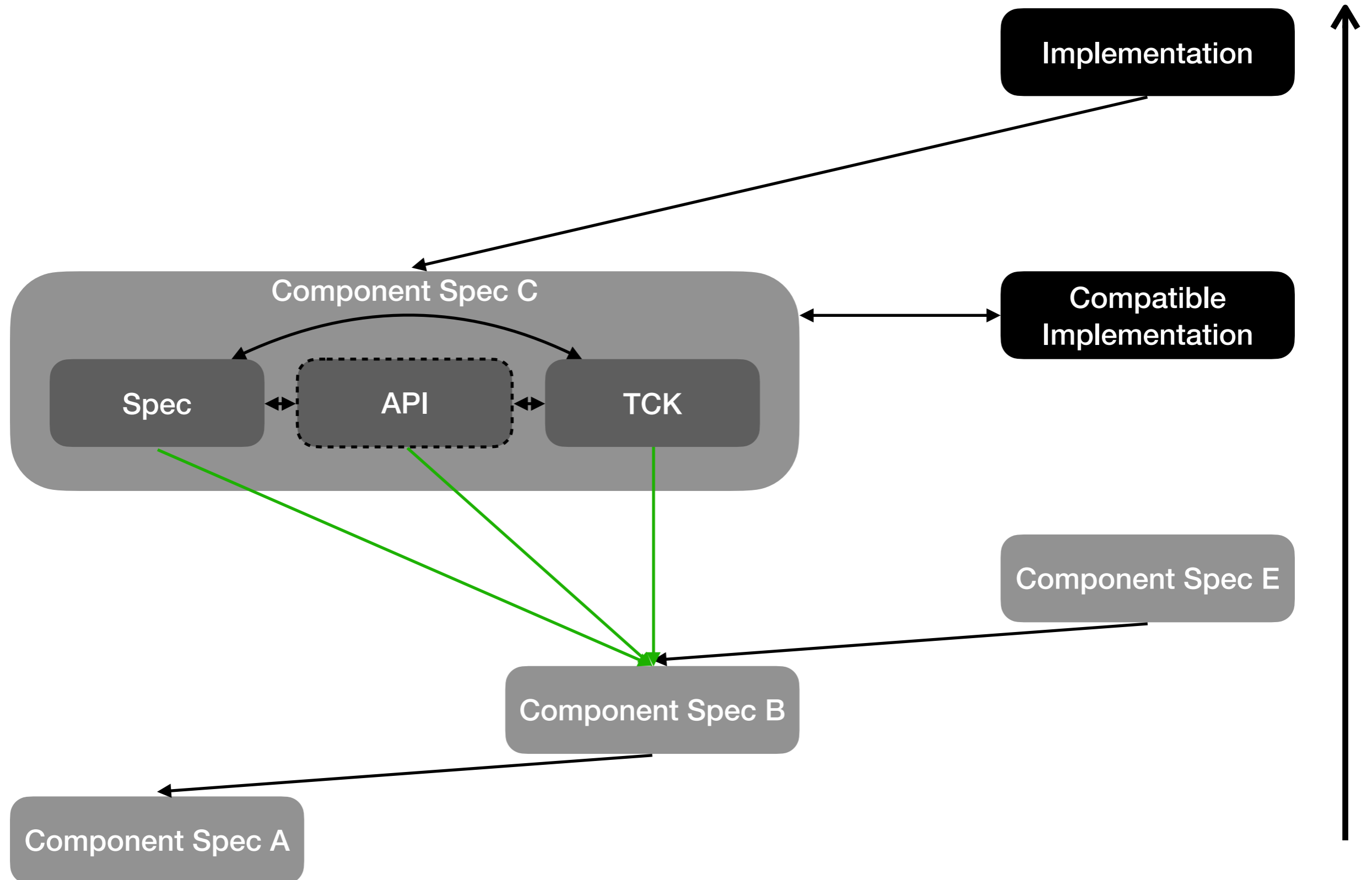


Note: Test dependencies allowed on TCK only

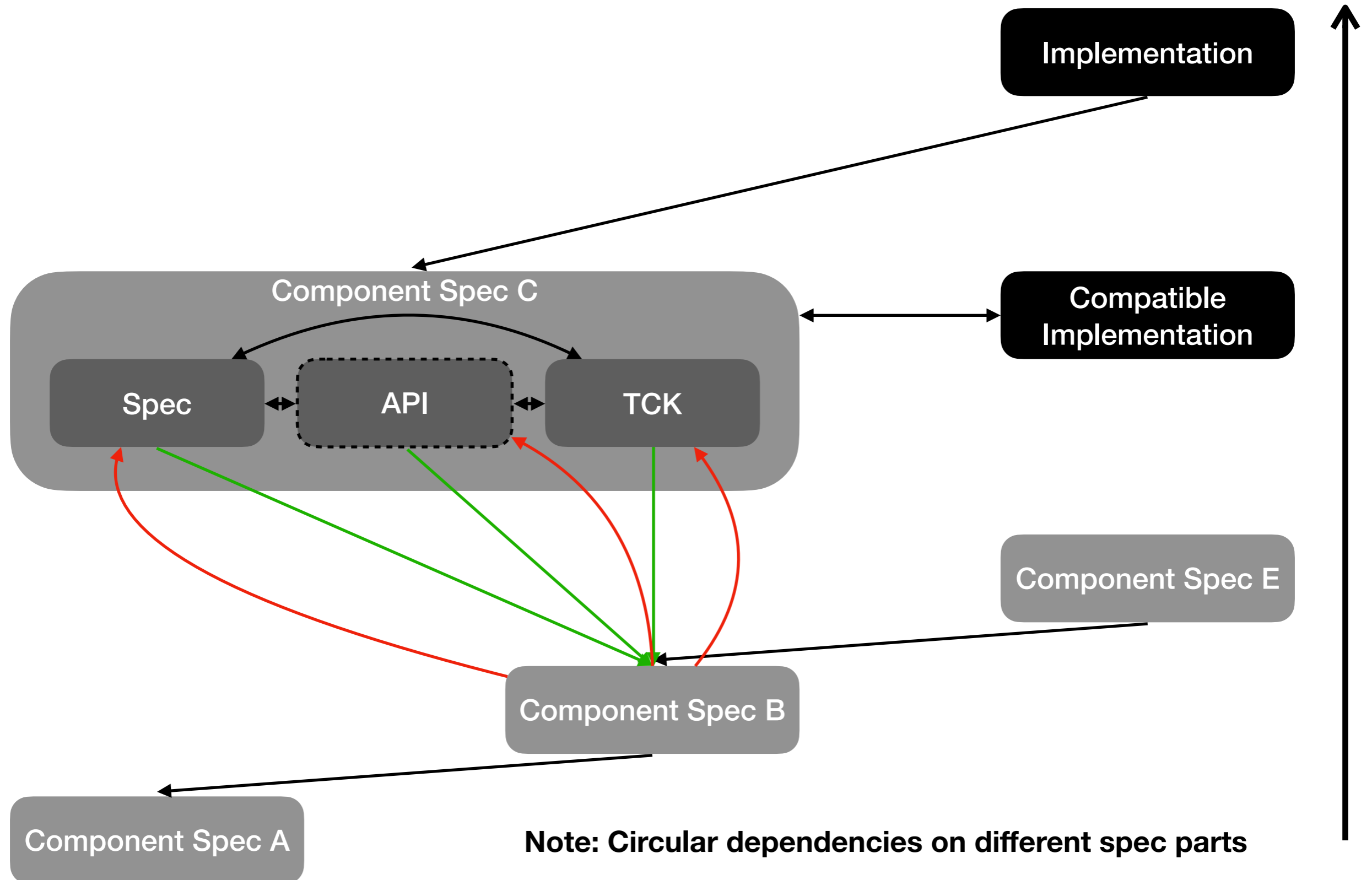
Component Spec Detail



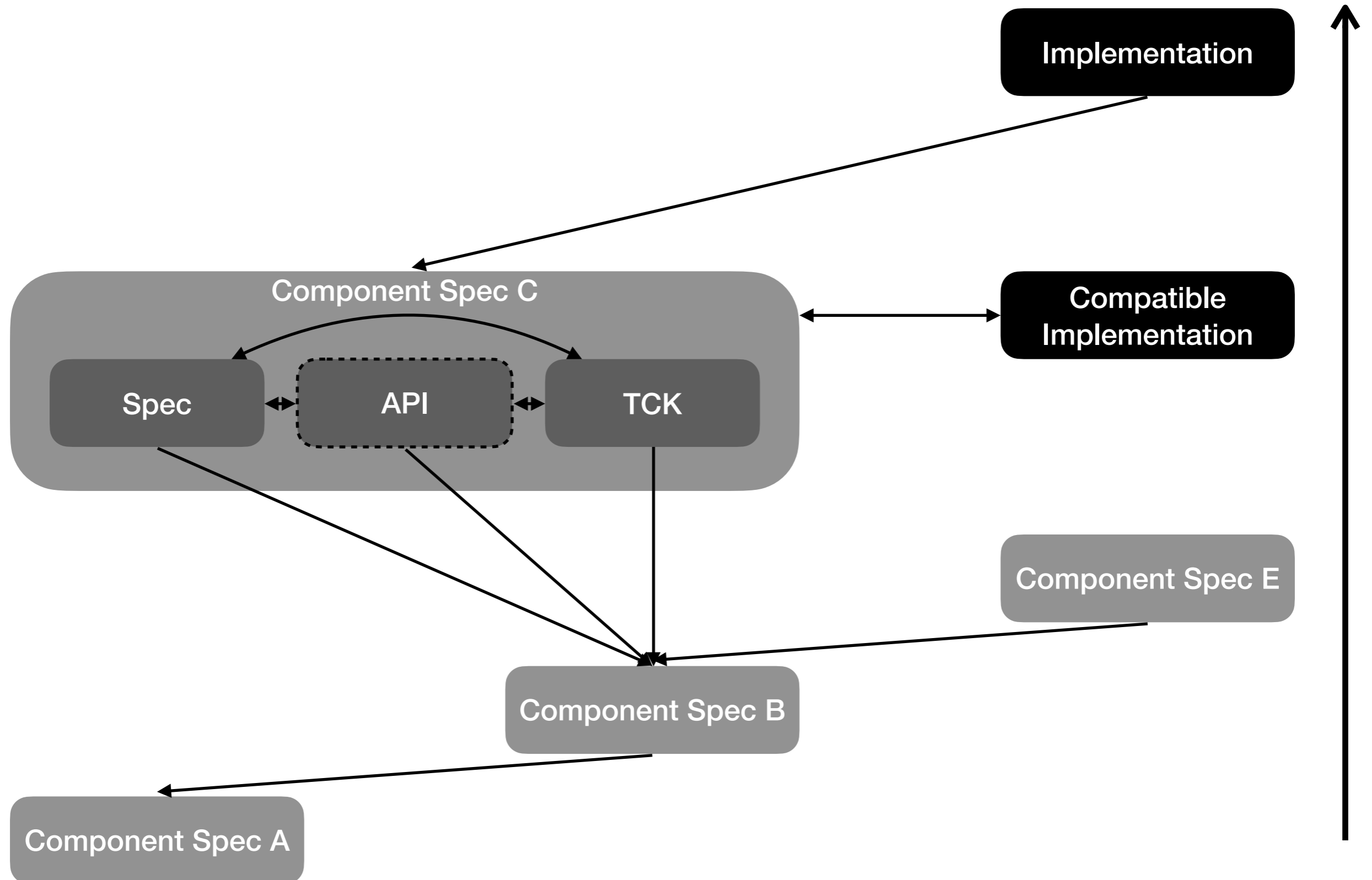
Component Spec Detail



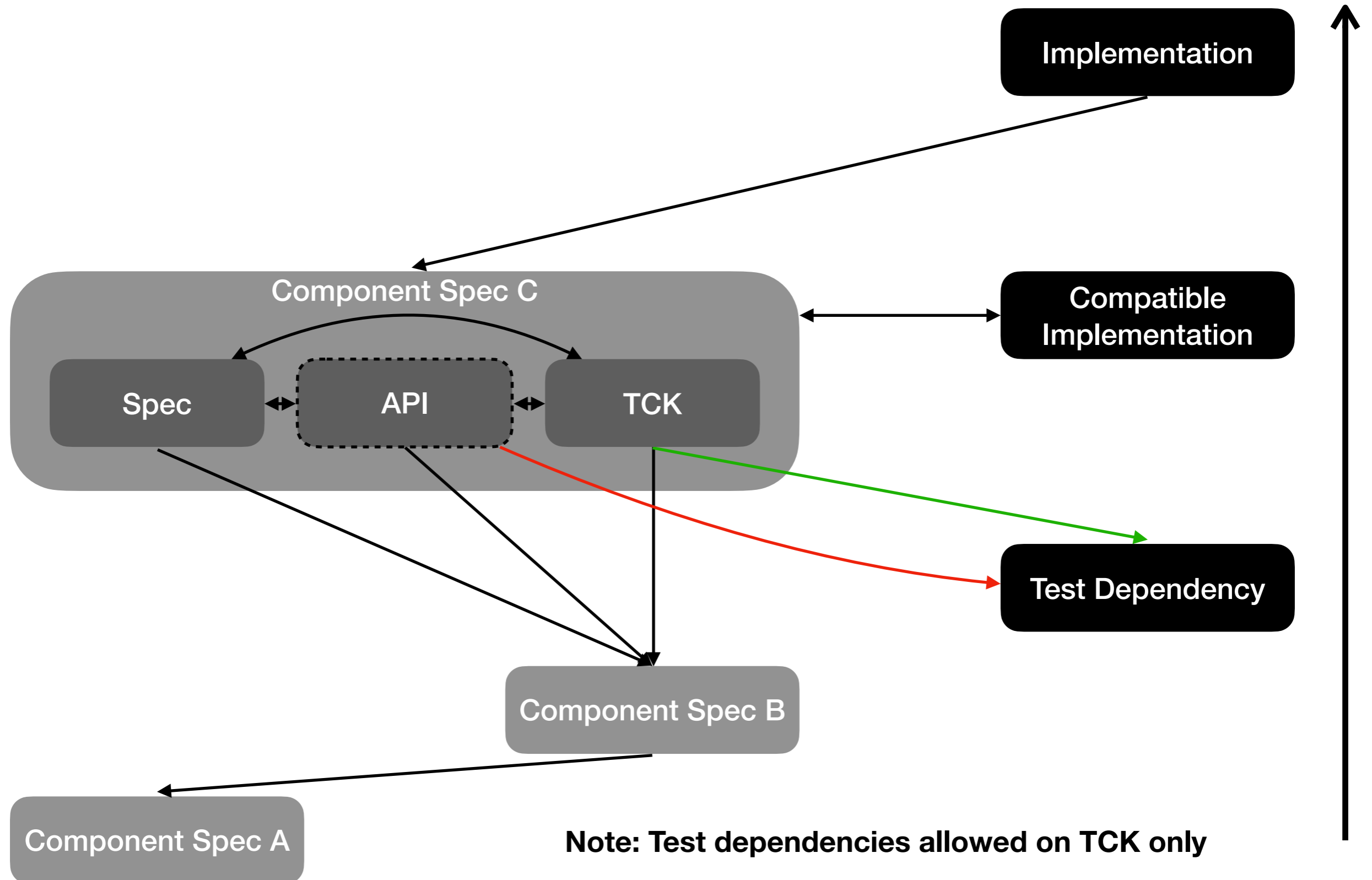
Component Spec Detail



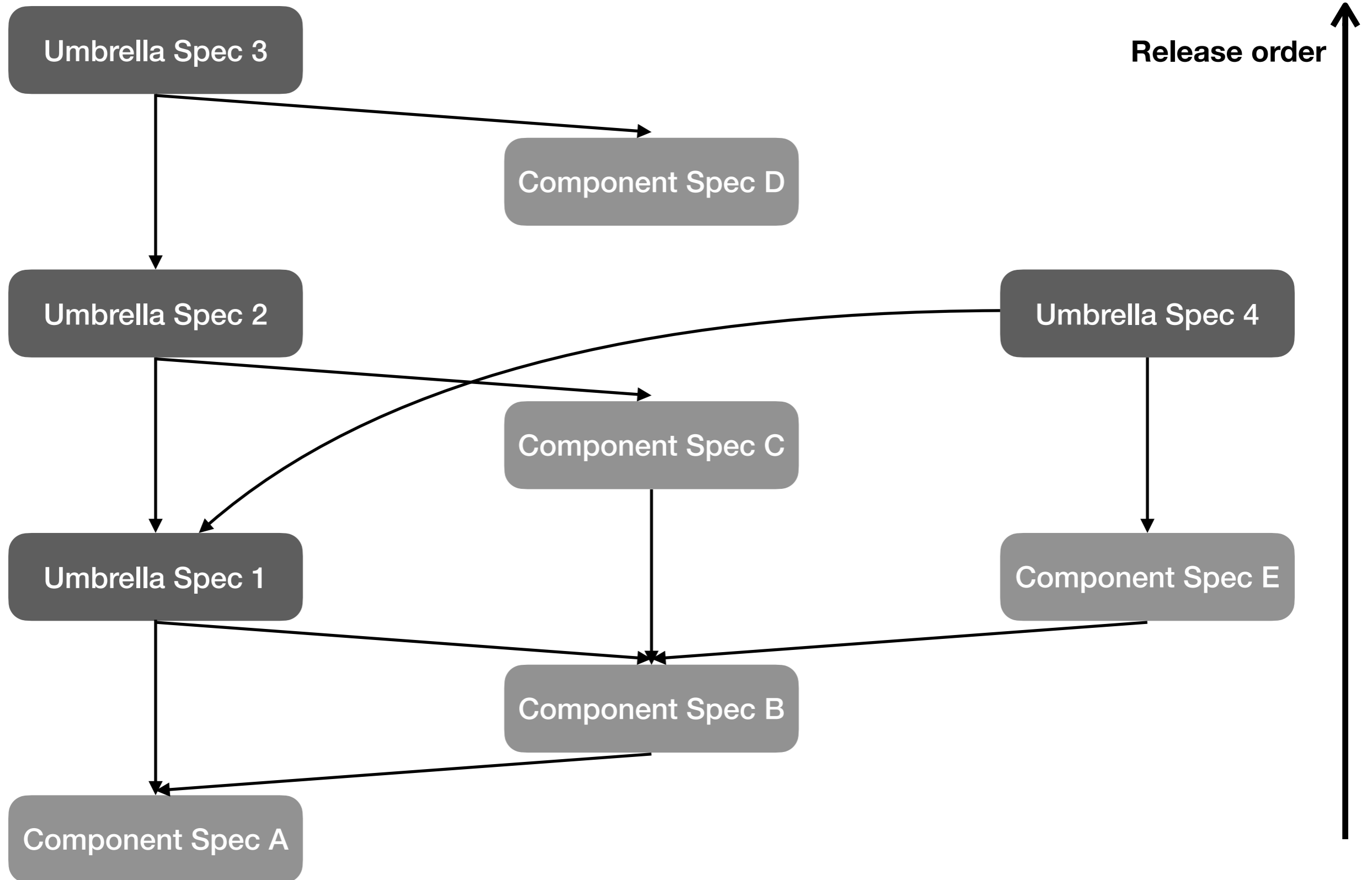
Component Spec Detail



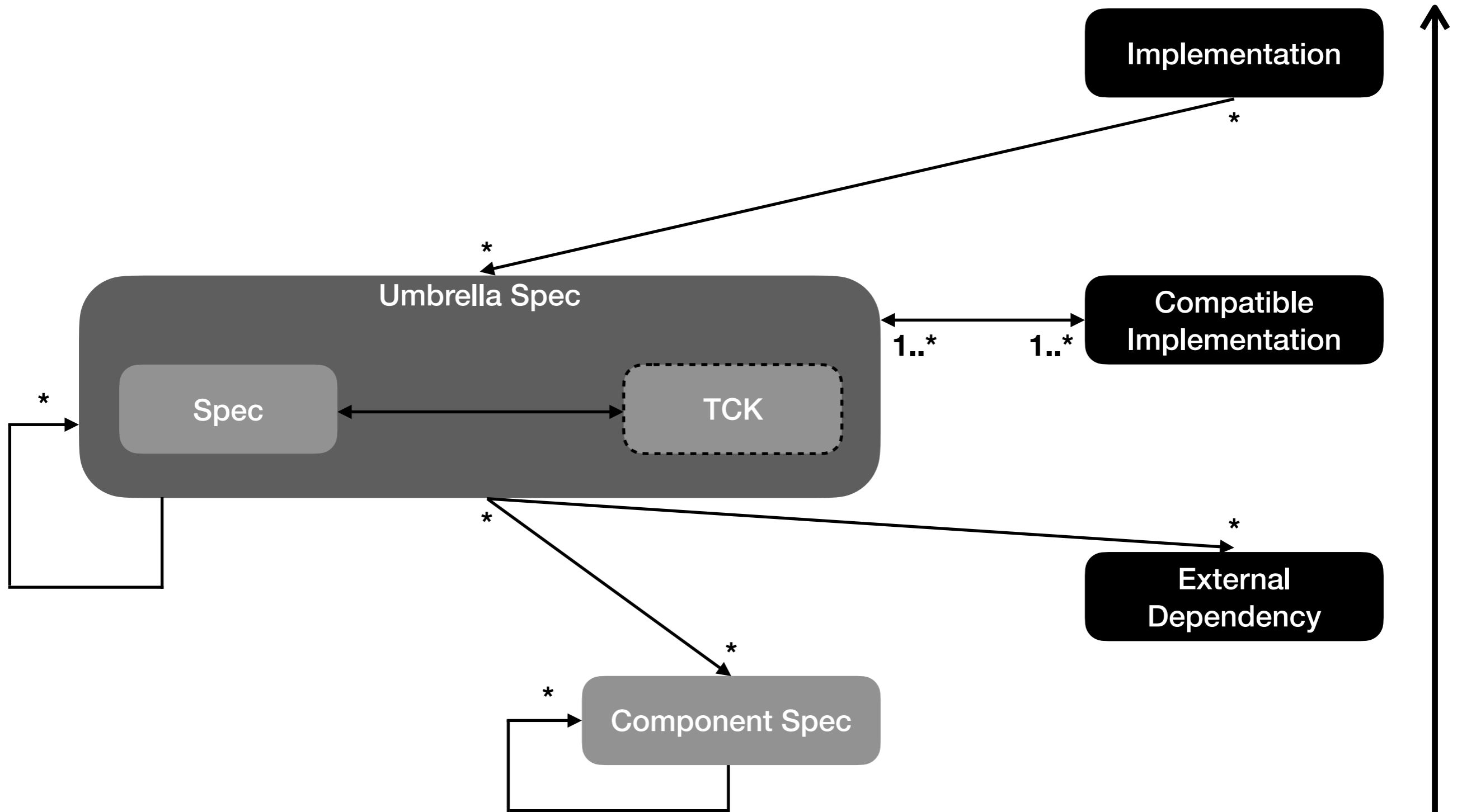
Component Spec Detail



Umbrella Specs

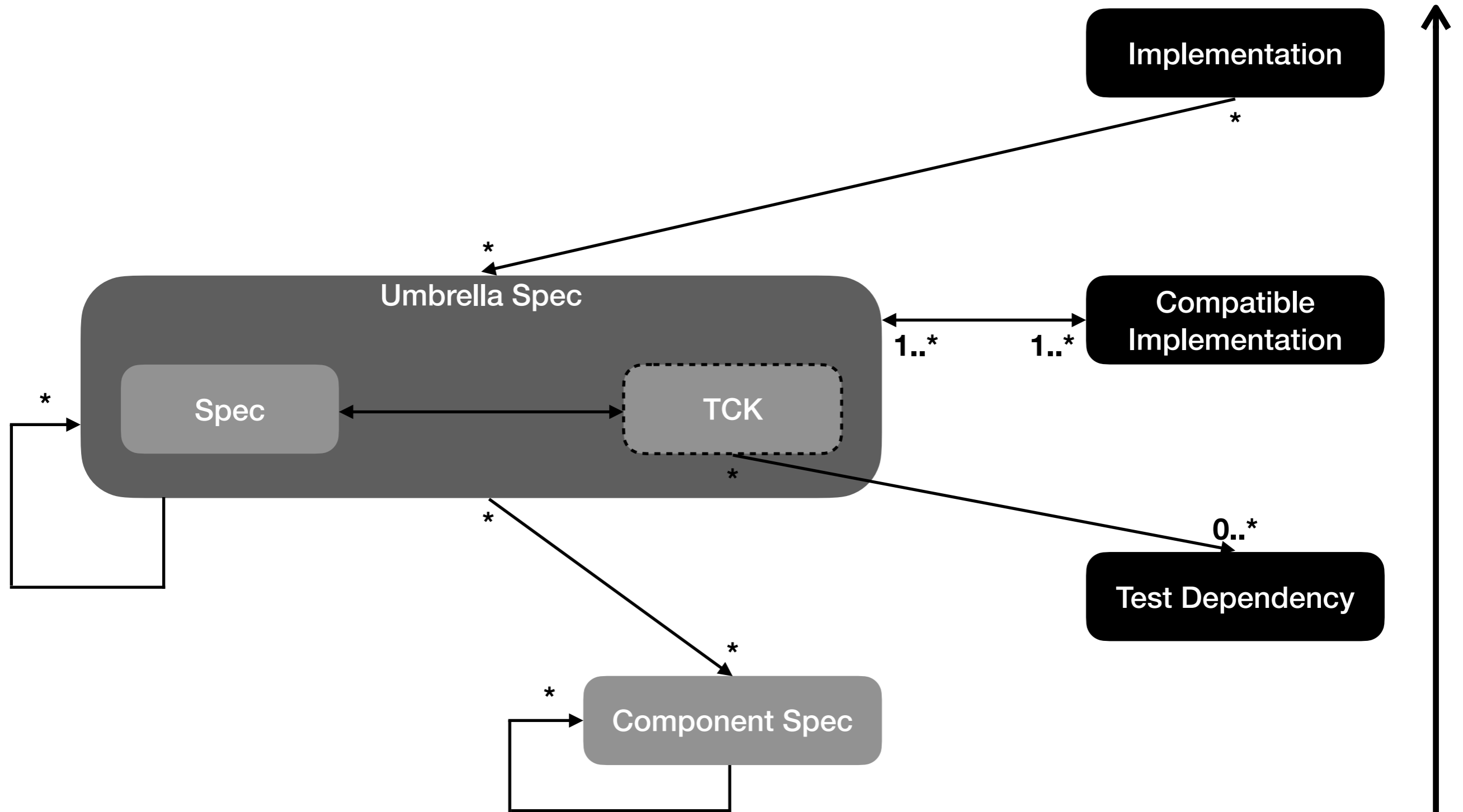


Umbrella Spec Detail



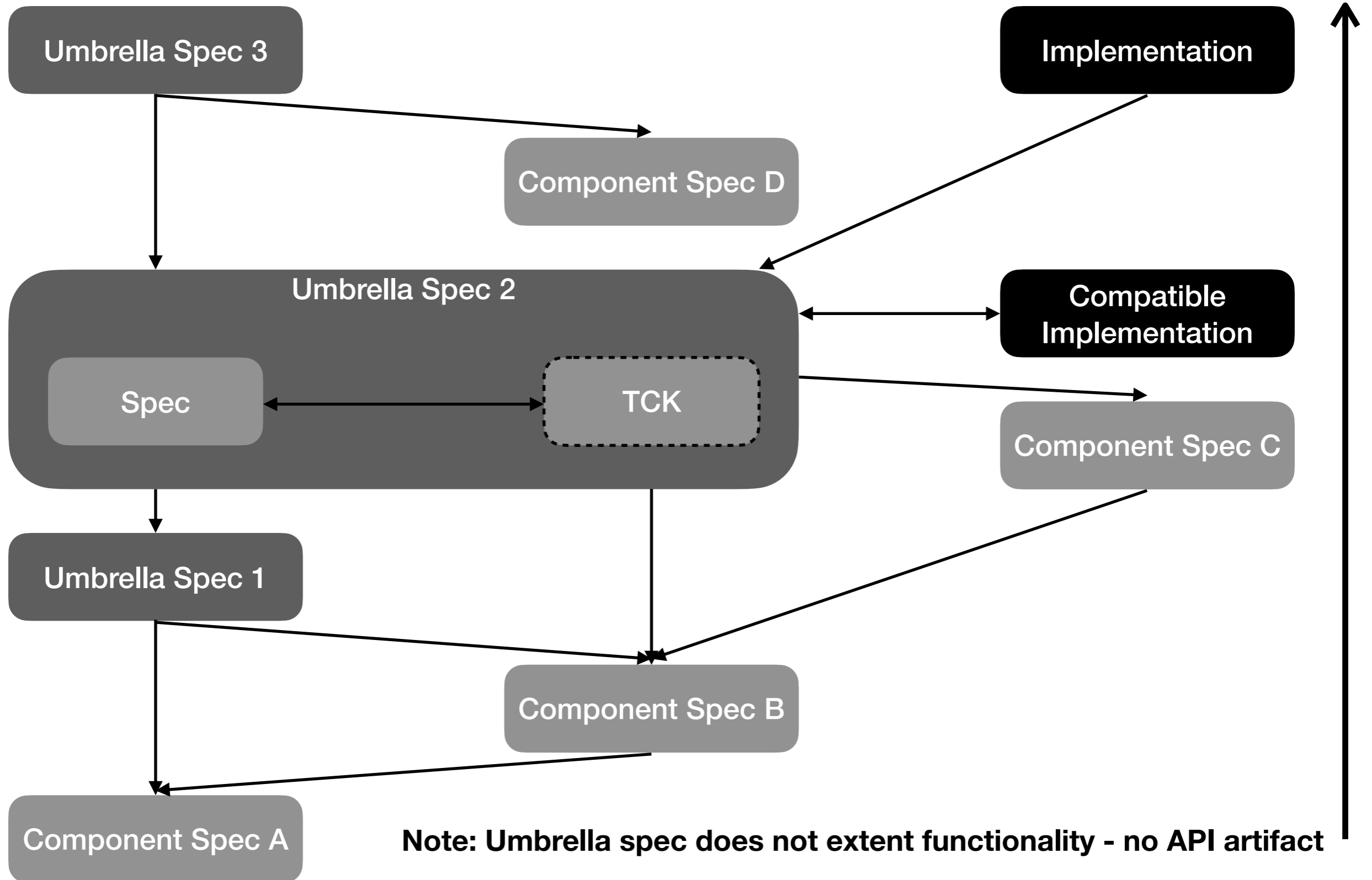
Note: Umbrella spec does not extent functionality - no API artifact

Umbrella Spec Detail

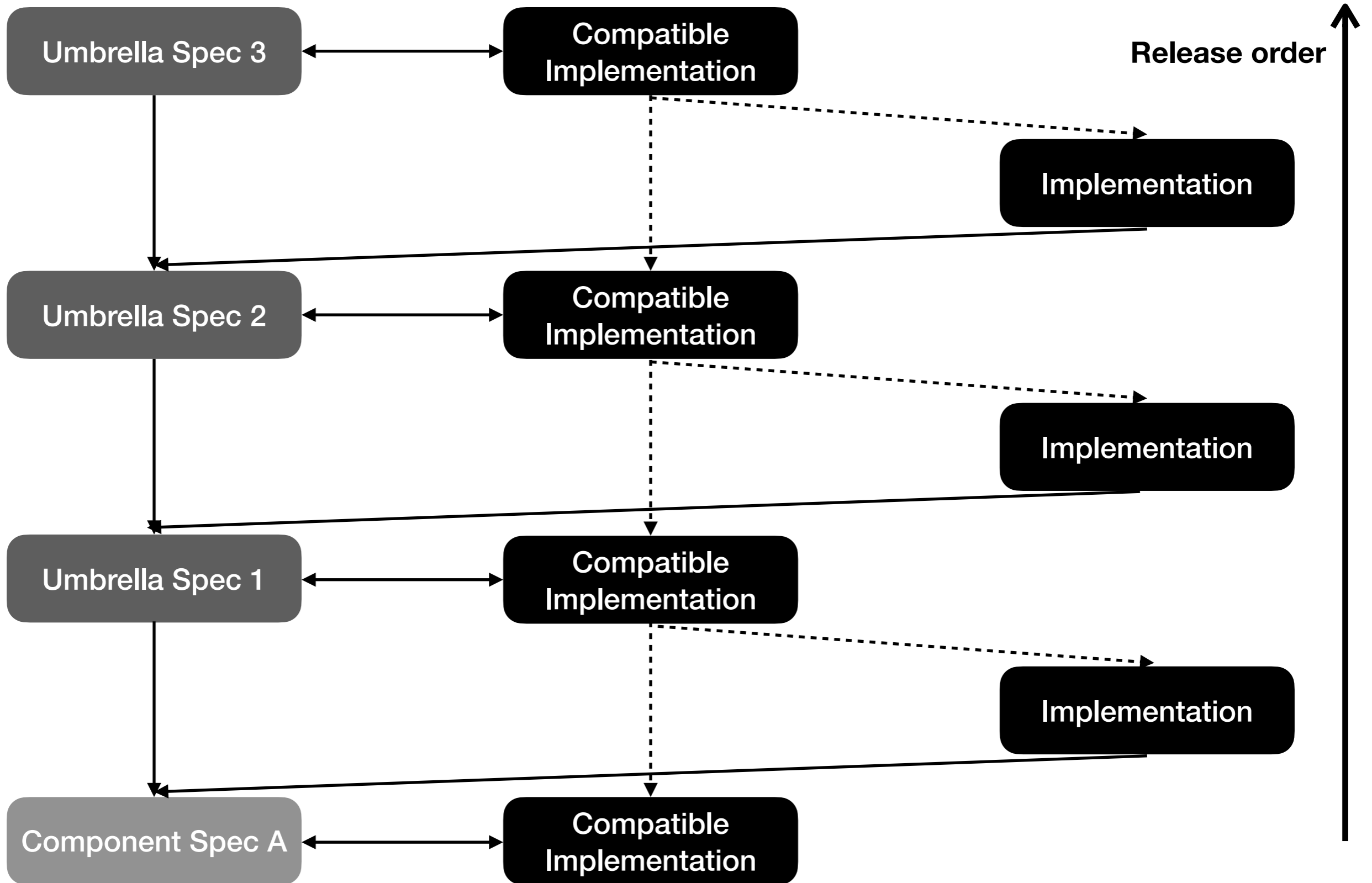


Note: Test dependencies allowed on TCK only

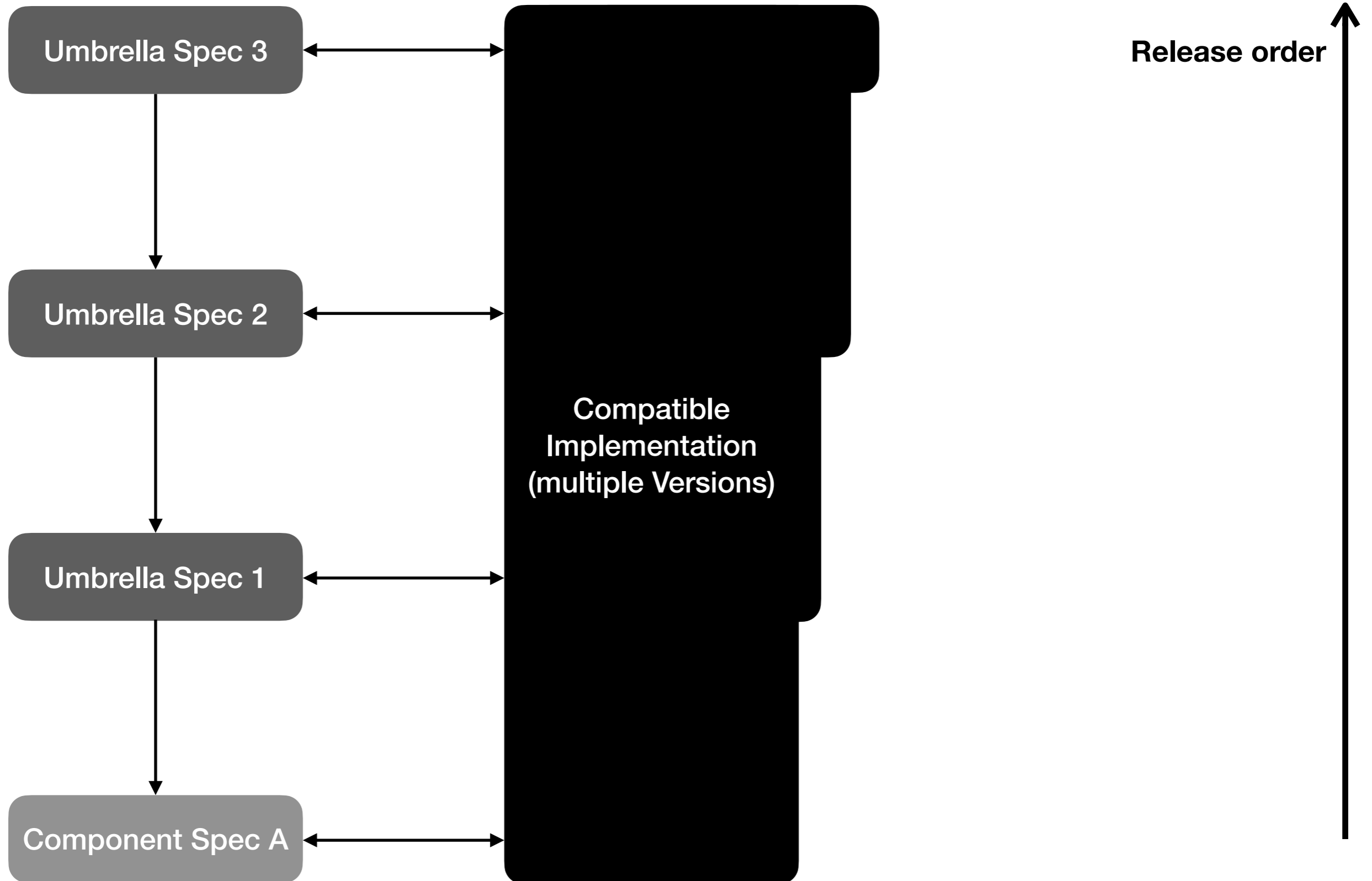
Umbrella Spec Detail



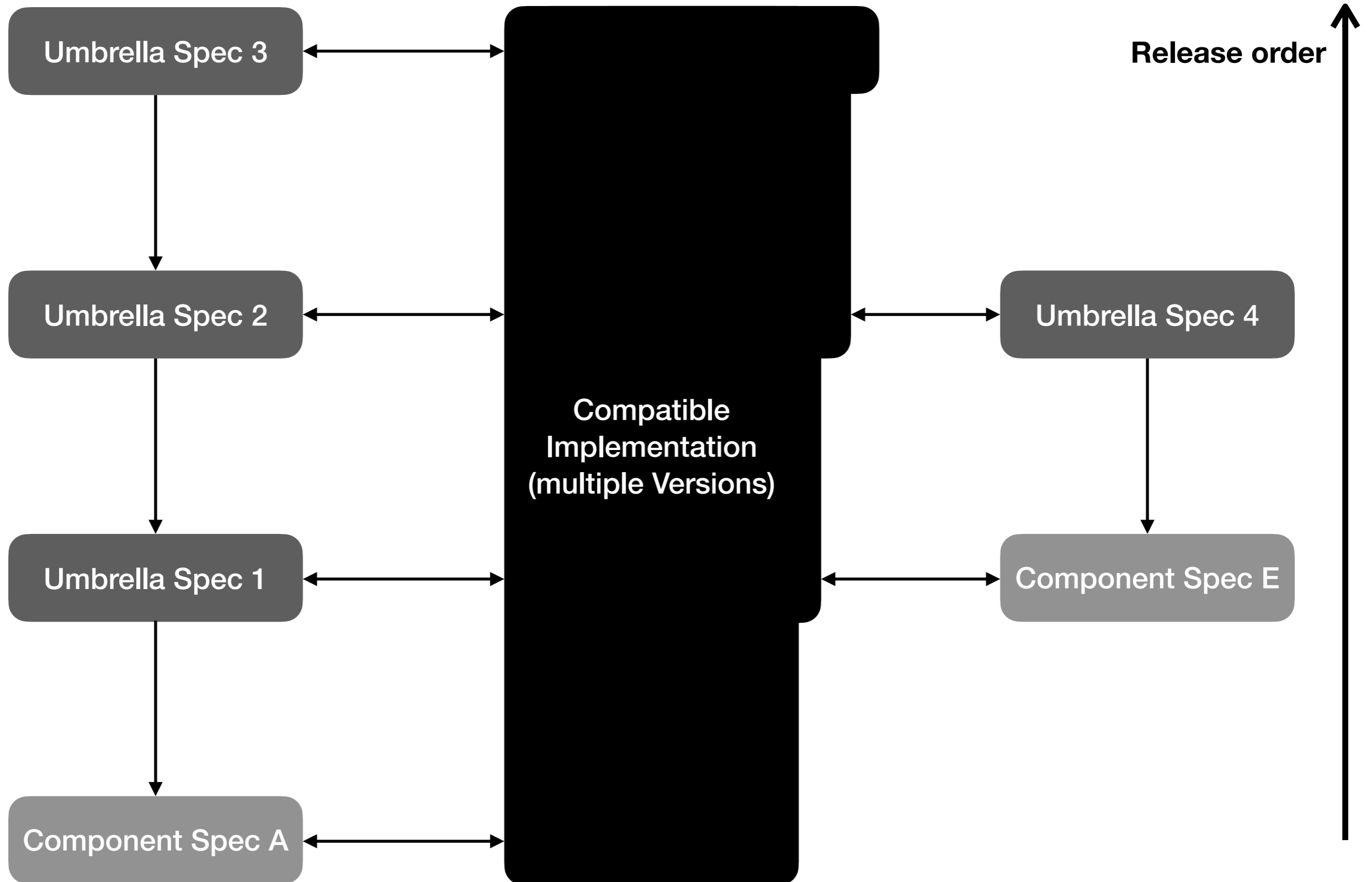
Spec Implementations



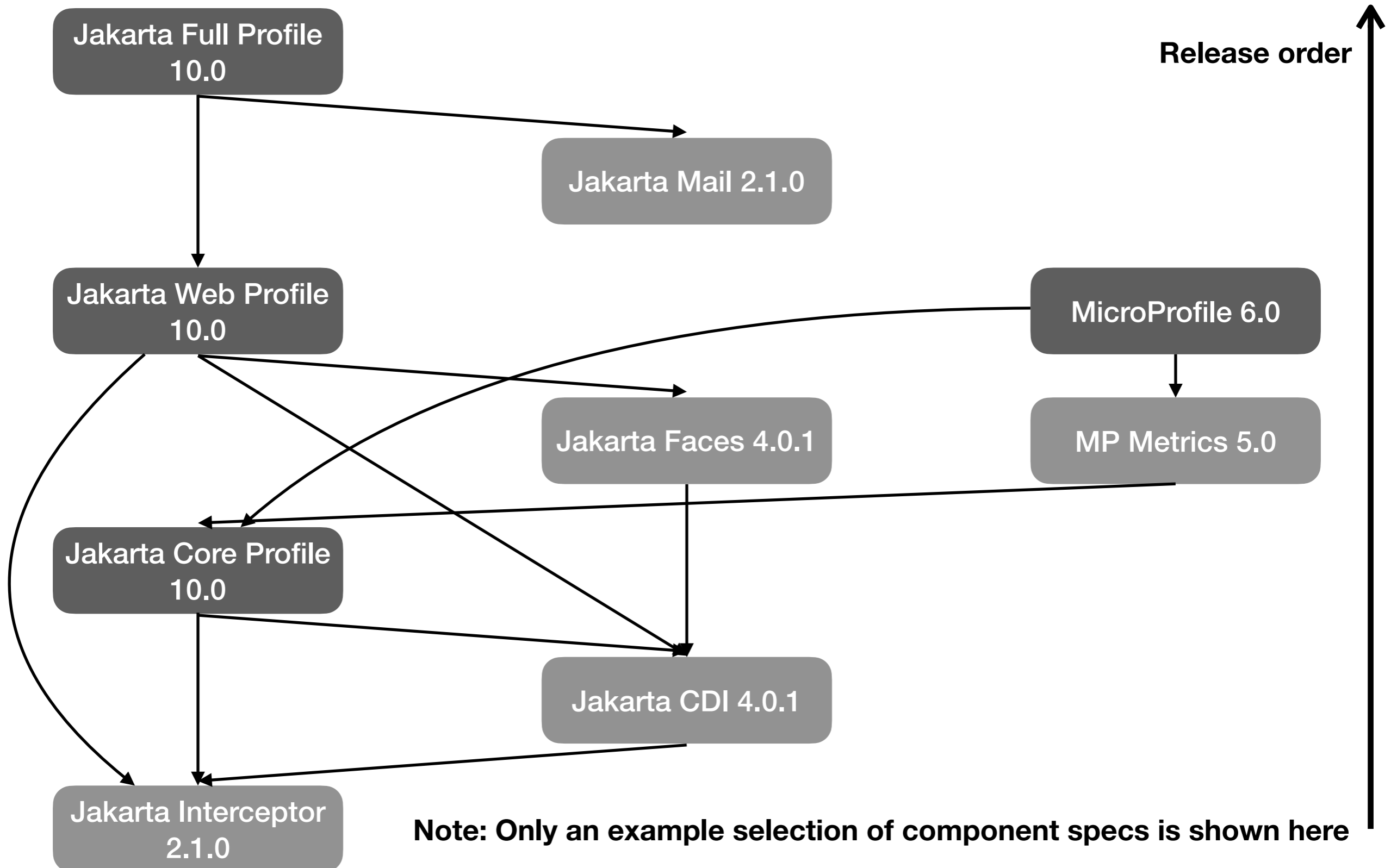
Spec Implementations



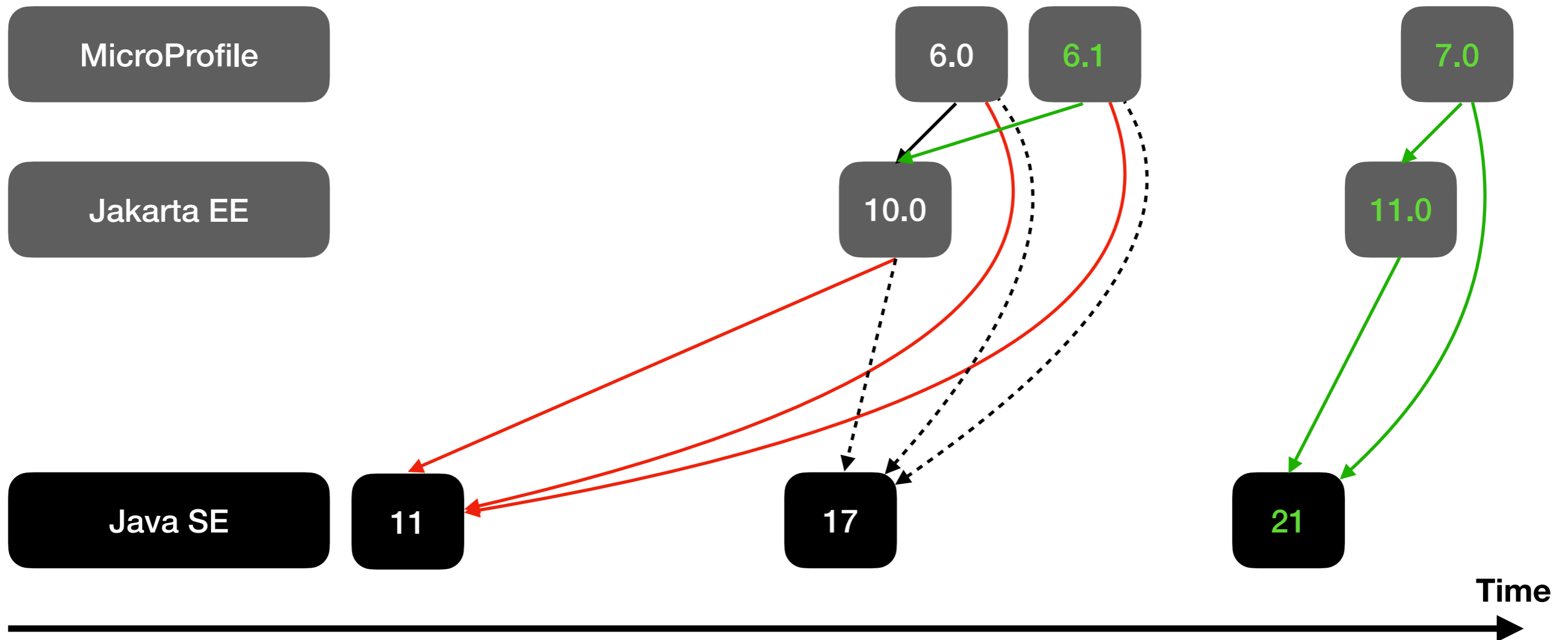
Spec Implementations



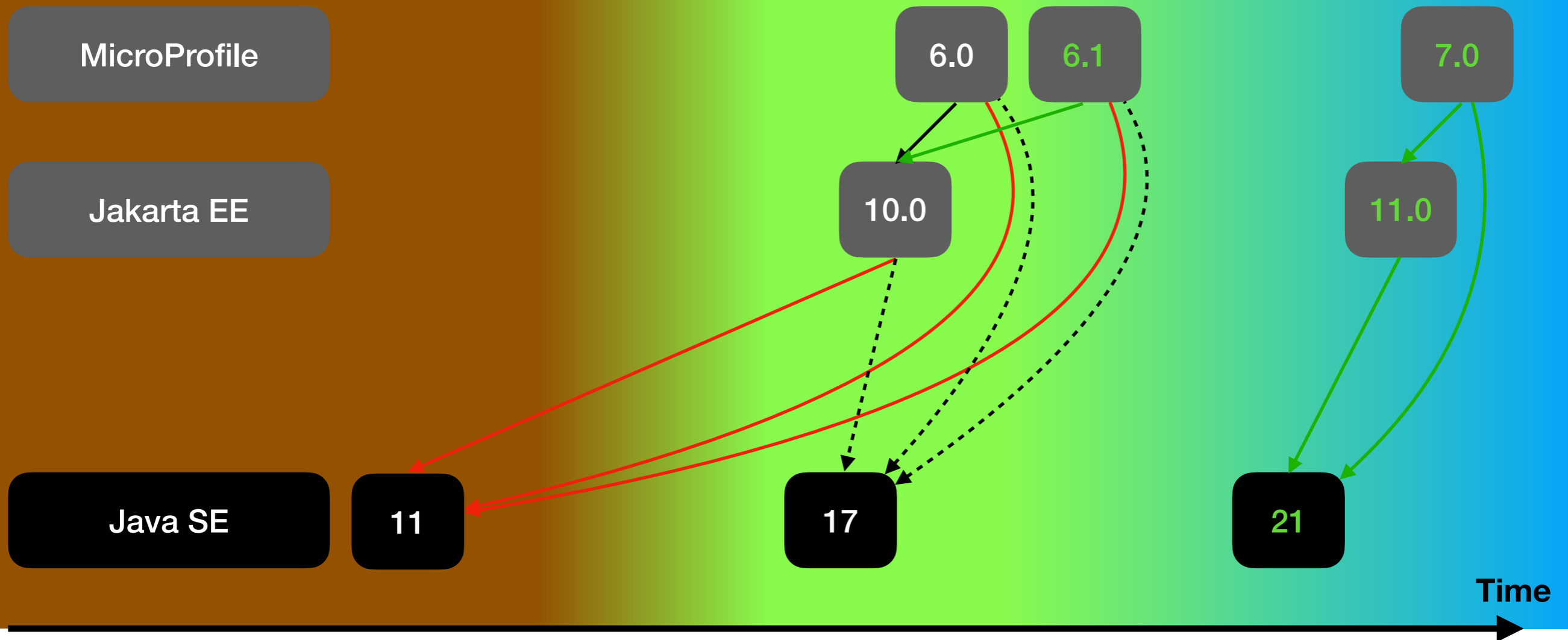
Jakarta EE & MicroProfile



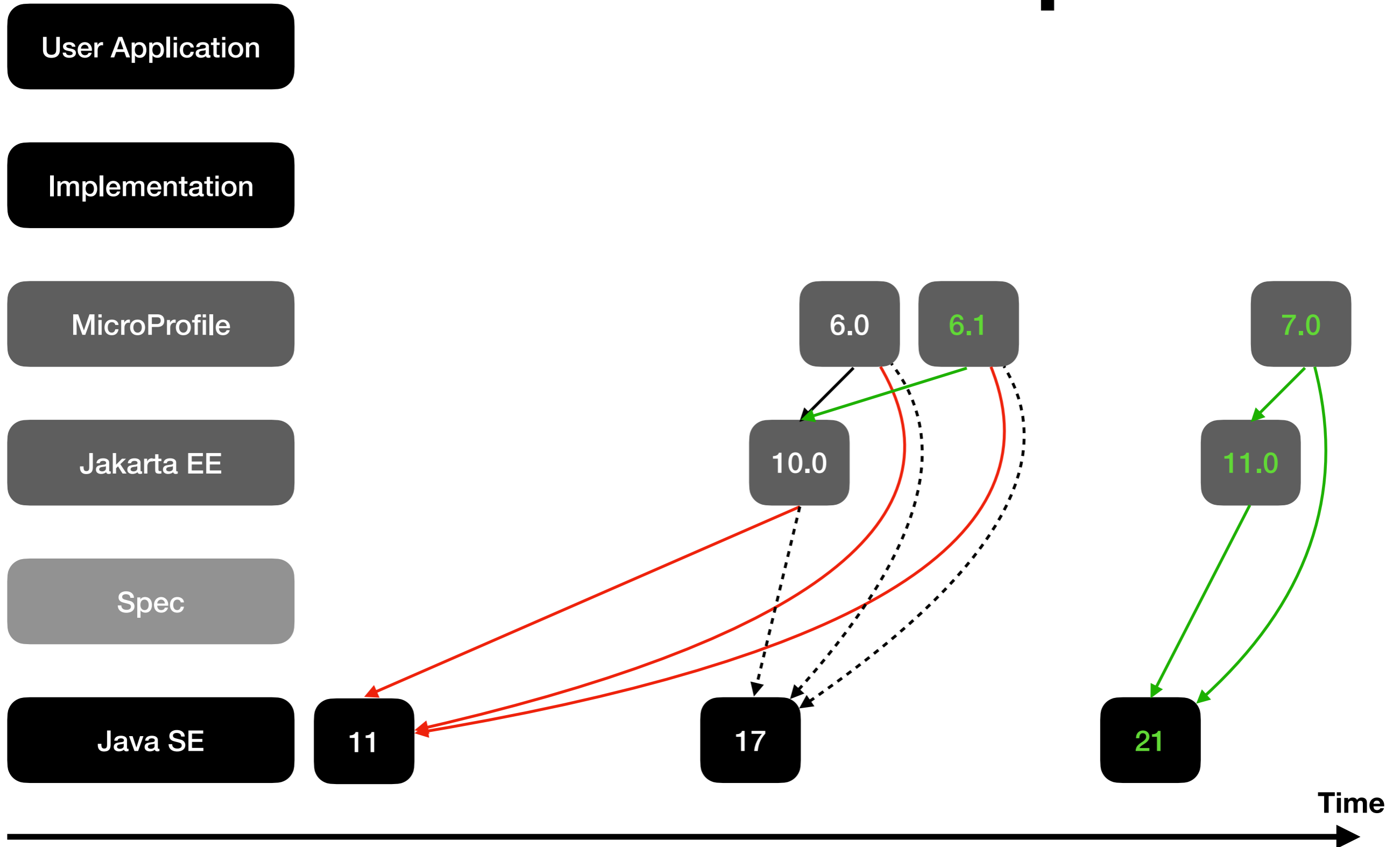
CN4J Roadmap



CN4J Roadmap



CN4J Roadmap



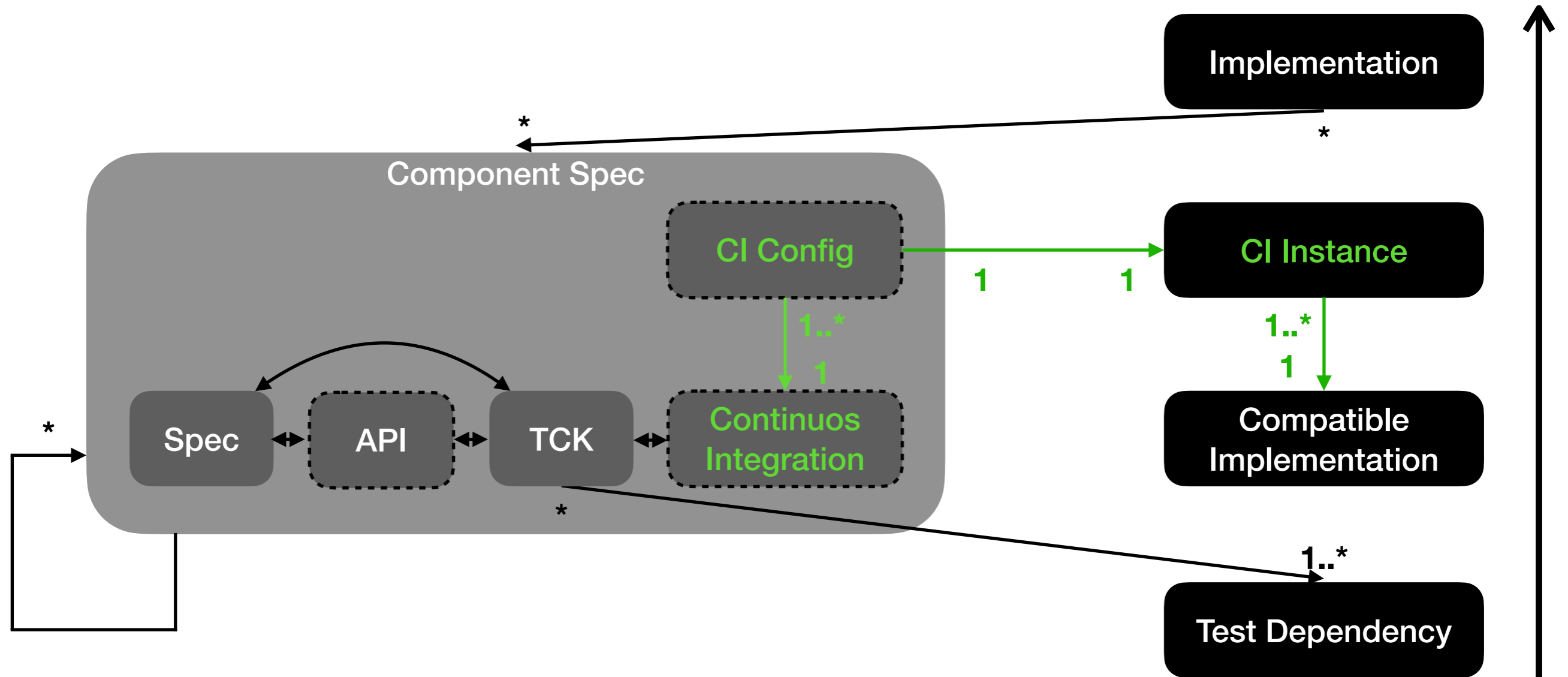
Issues & Solutions

- Continuous Integration
- MicroProfile Parent
- MicroProfile Metrics
- Jakarta EE Platform
- Jakarta Security & MicroProfile JWT
- Jakarta Config & MicroProfile Config
- Security Issues
 - MP Parent
 - MP REST Client

Continuous Integration

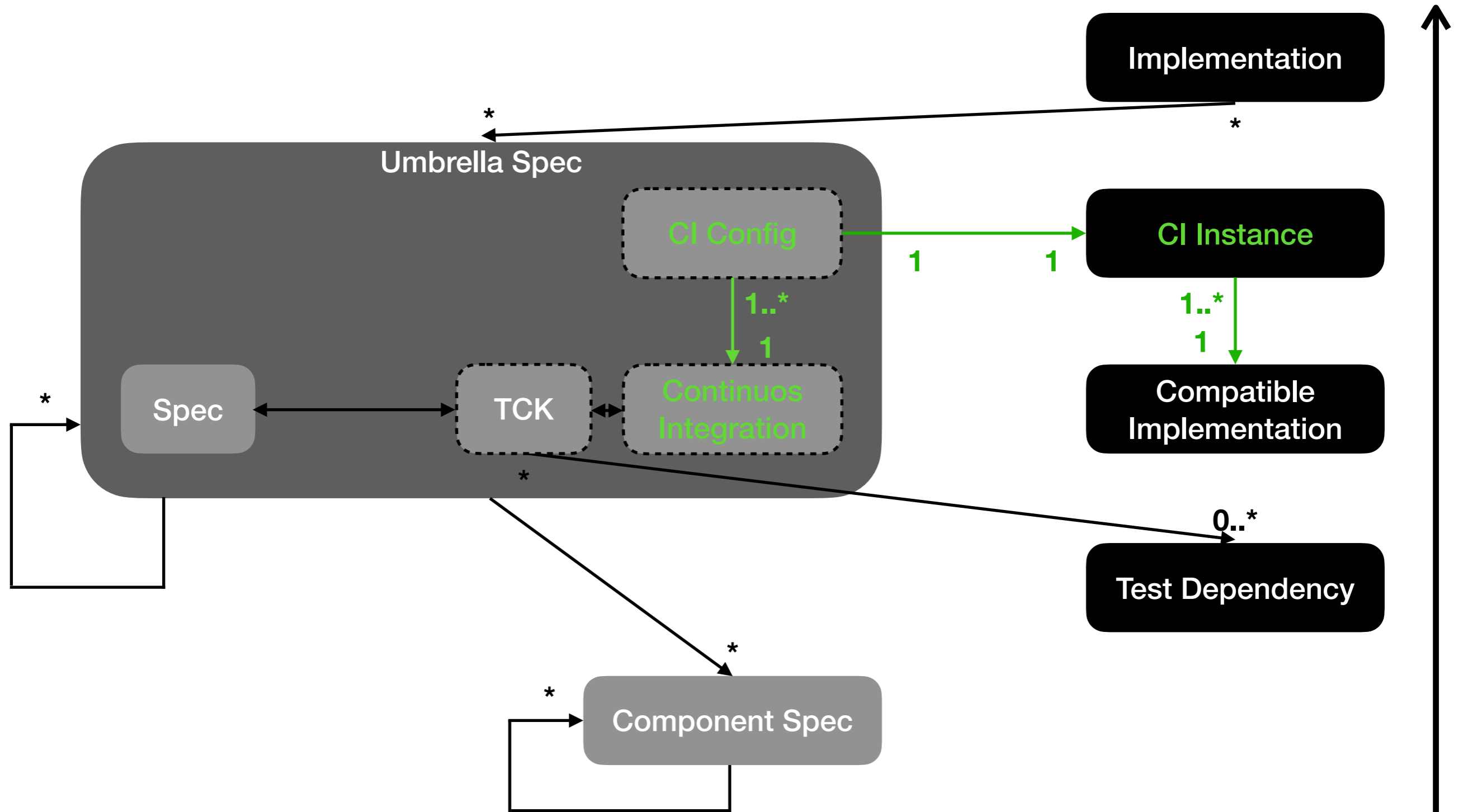
- Run TCK on Compatible Implementation(s) automatically and locally
 - Git clone & build CI or (Maven) load CI
 - Start CI & deploy TCK
 - Execute TCK in or with CI
 - Return TCK feedback

Continuous Integration



Note: Configuration of Compatible Implementation instance(s) for Continuous Integration

Continuous Integration

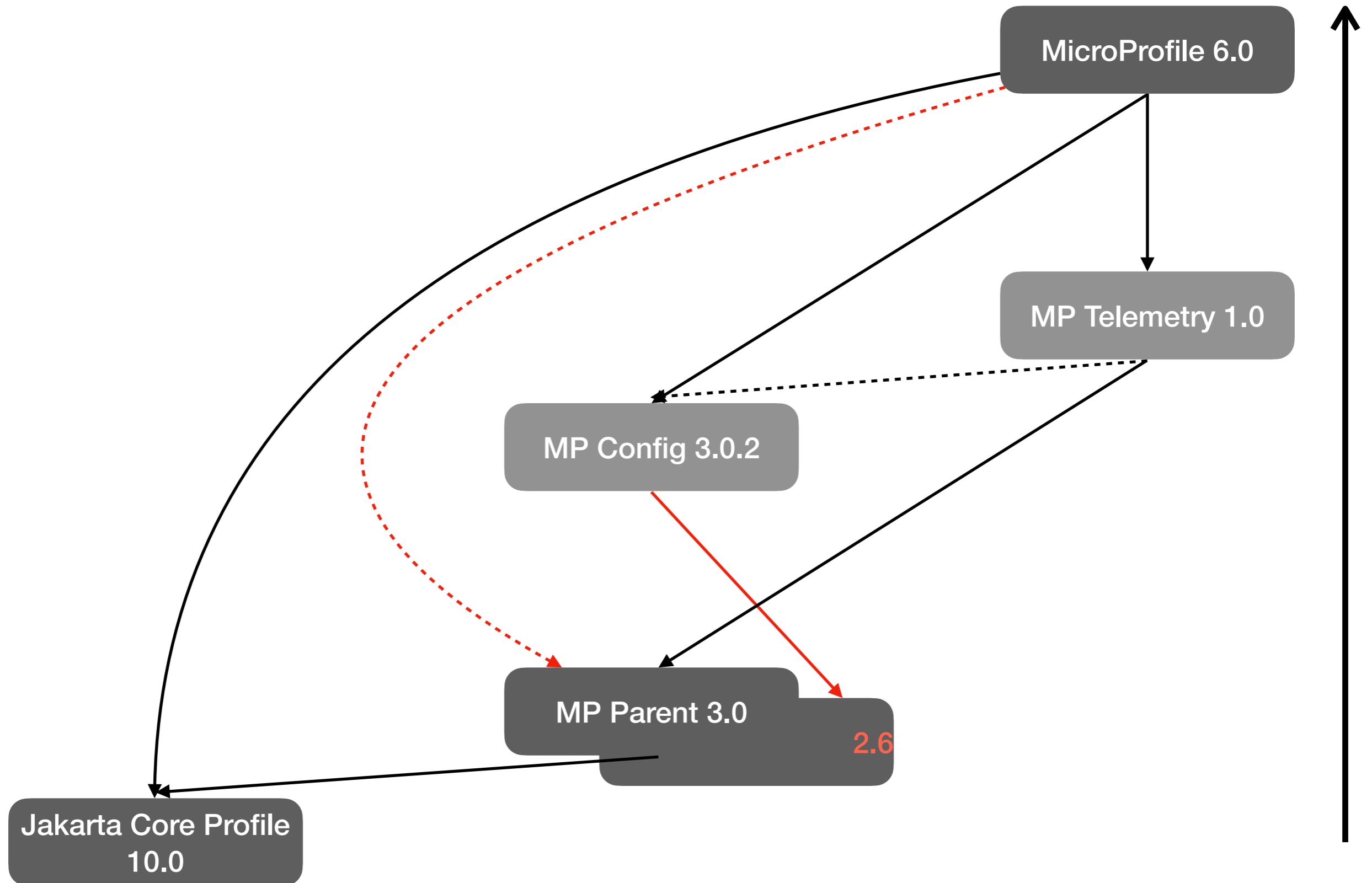


Note: Configuration of Compatible Implementation instance(s) for Continuous Integration

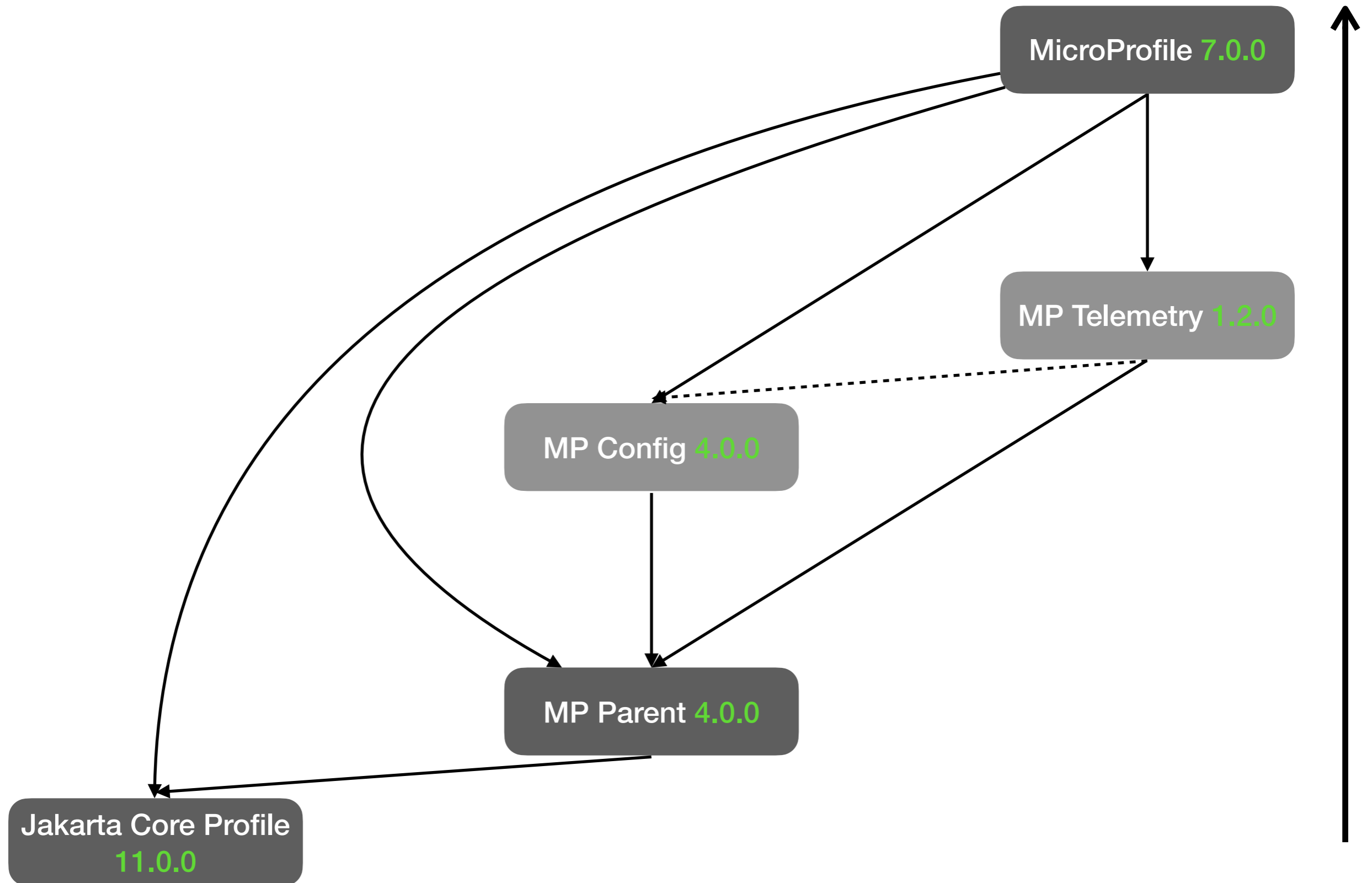
MicroProfile Parent

- Issue
 - Two versions in use for MP 6.0
 - MicroProfile (umbrella) spec does not use it
 - One MP component spec still uses test dependency on API
- Solution
 - Use one version MP Parent for MP component and umbrella specs
 - TCK-BOM prevents test dependencies on non-TCKs

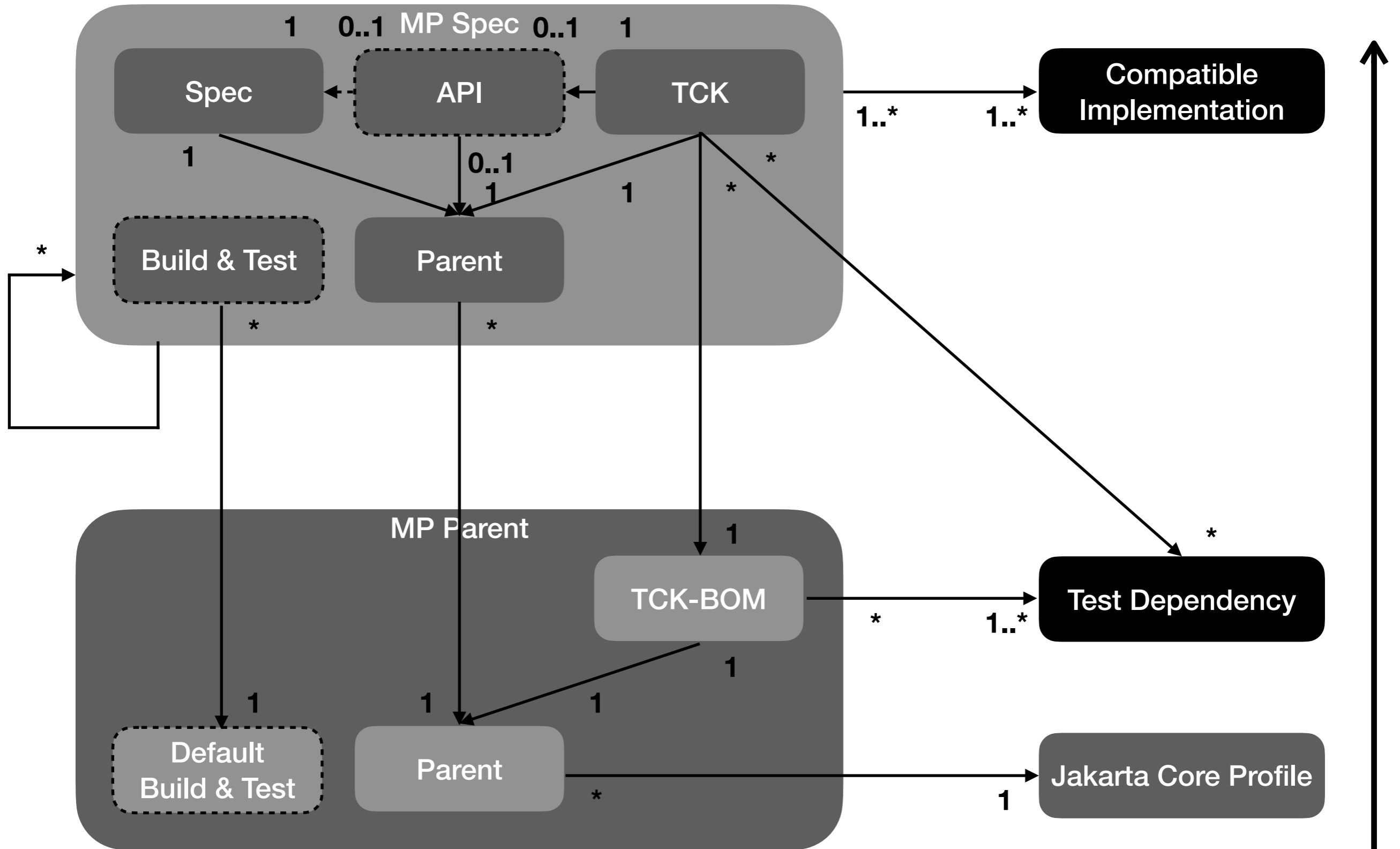
MicroProfile Parent



MicroProfile Parent



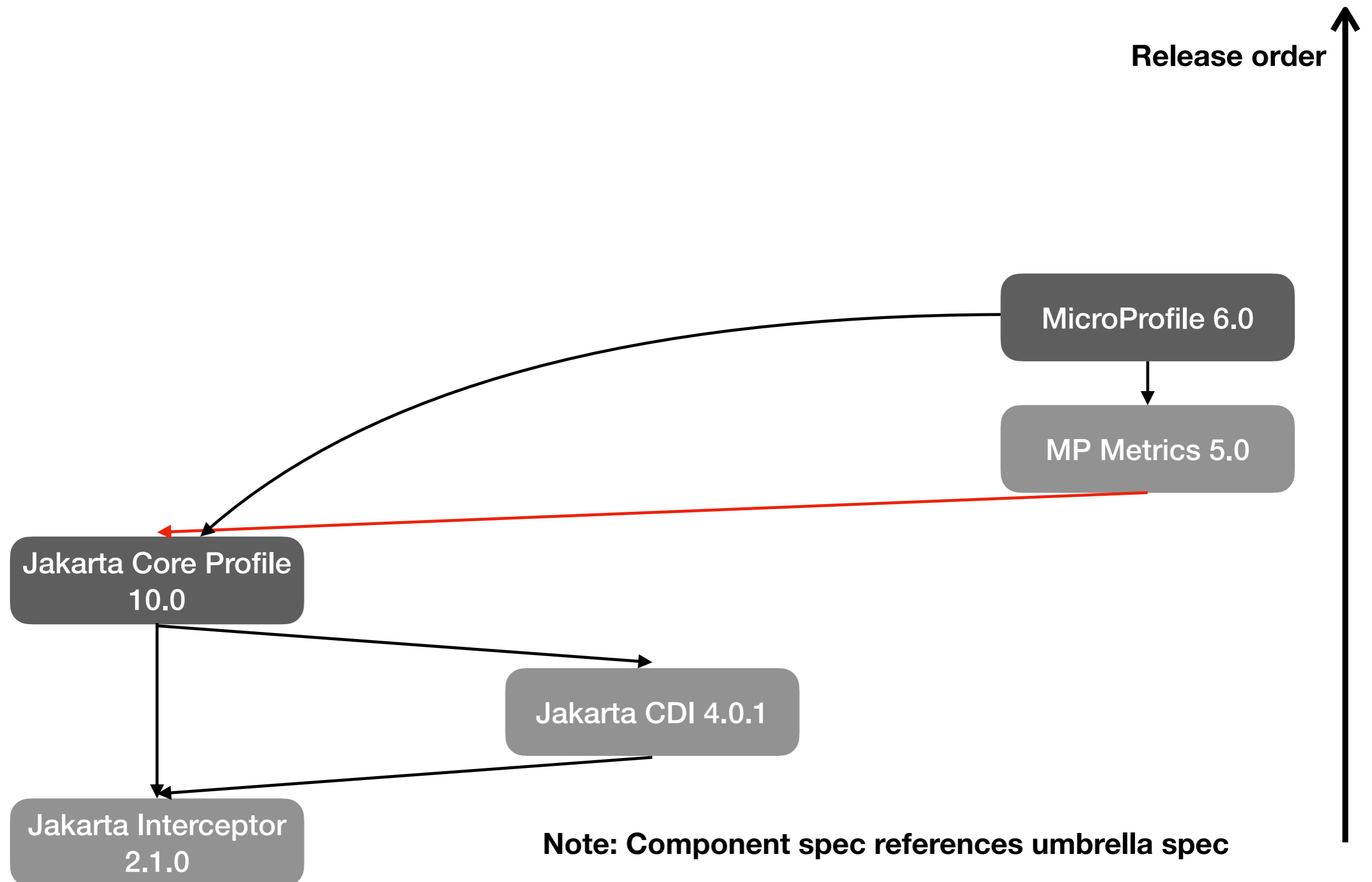
MicroProfile Parent Detail



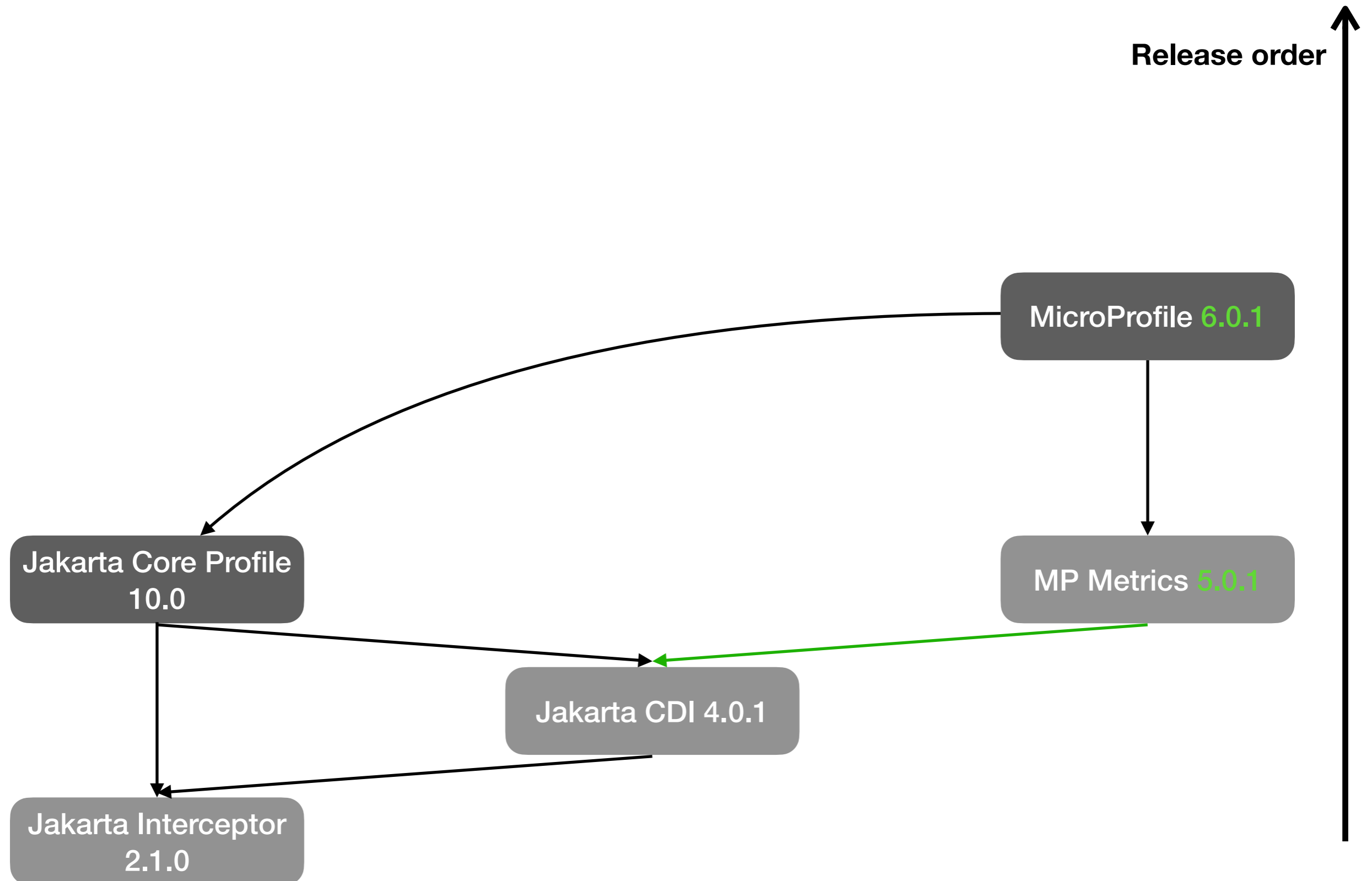
MicroProfile Metrics

- Issue
 - Component spec depends on umbrella spec
- Solution
 - MicroProfile should depend on component specs only

MicroProfile Metrics



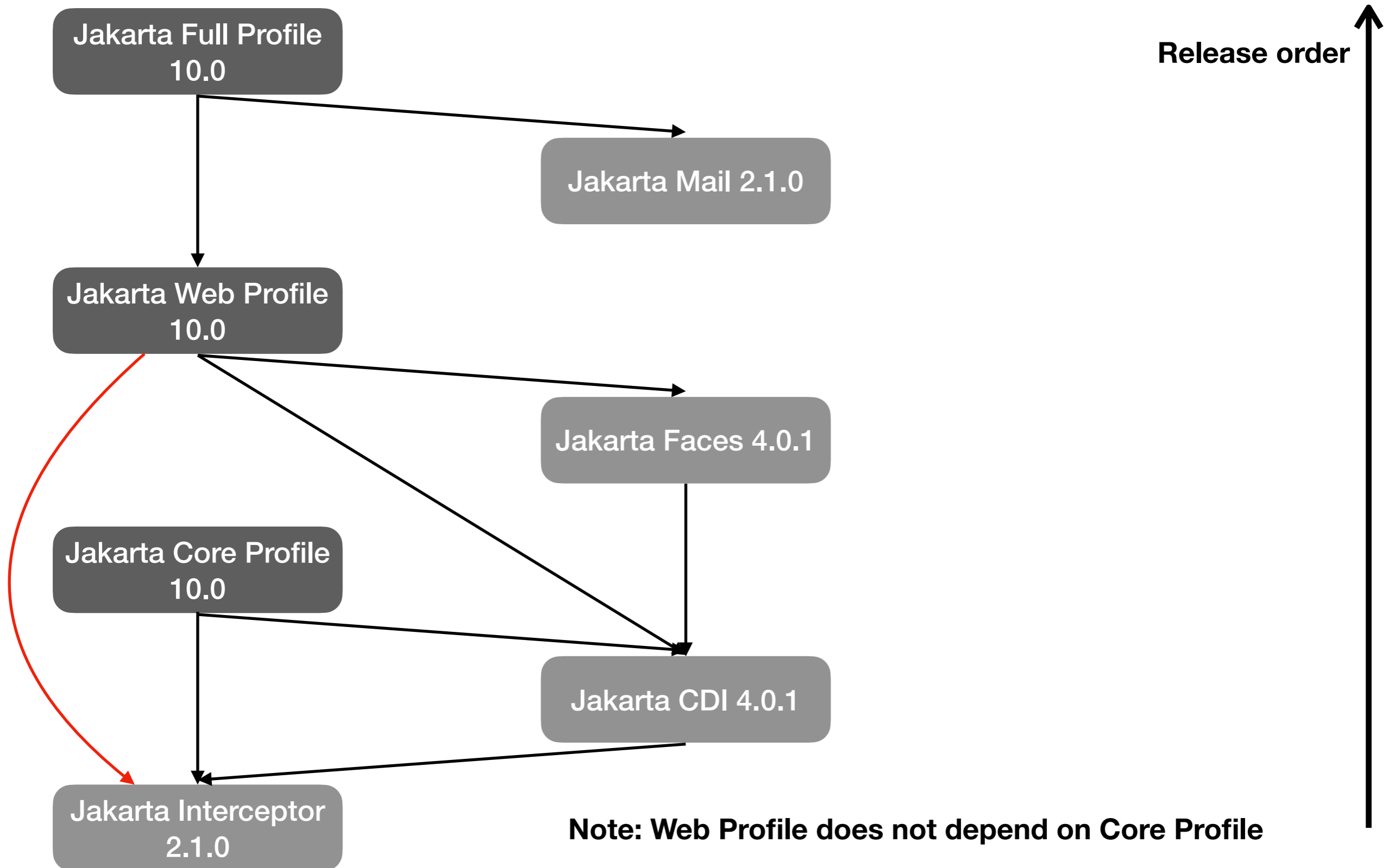
MicroProfile Metrics



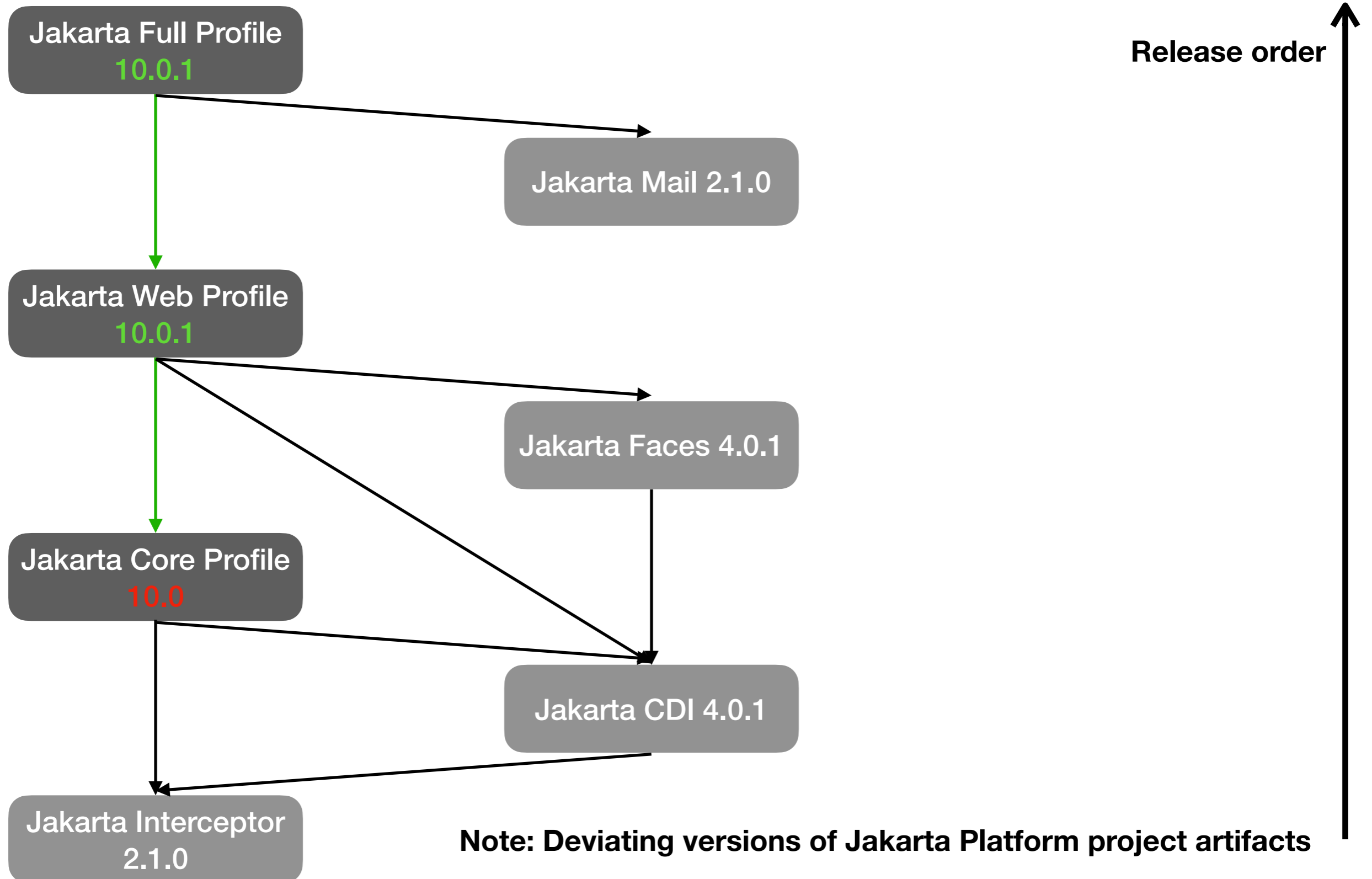
Jakarta EE Platform

- Issue
 - Web Profile does not depend on Core Profile
 - Intention to have independent Core Profile releases
- Solution
 - Web Profile should depend on Core Profile
 - All Jakarta EE Platform releases should be in sync (regarding dependencies and version)

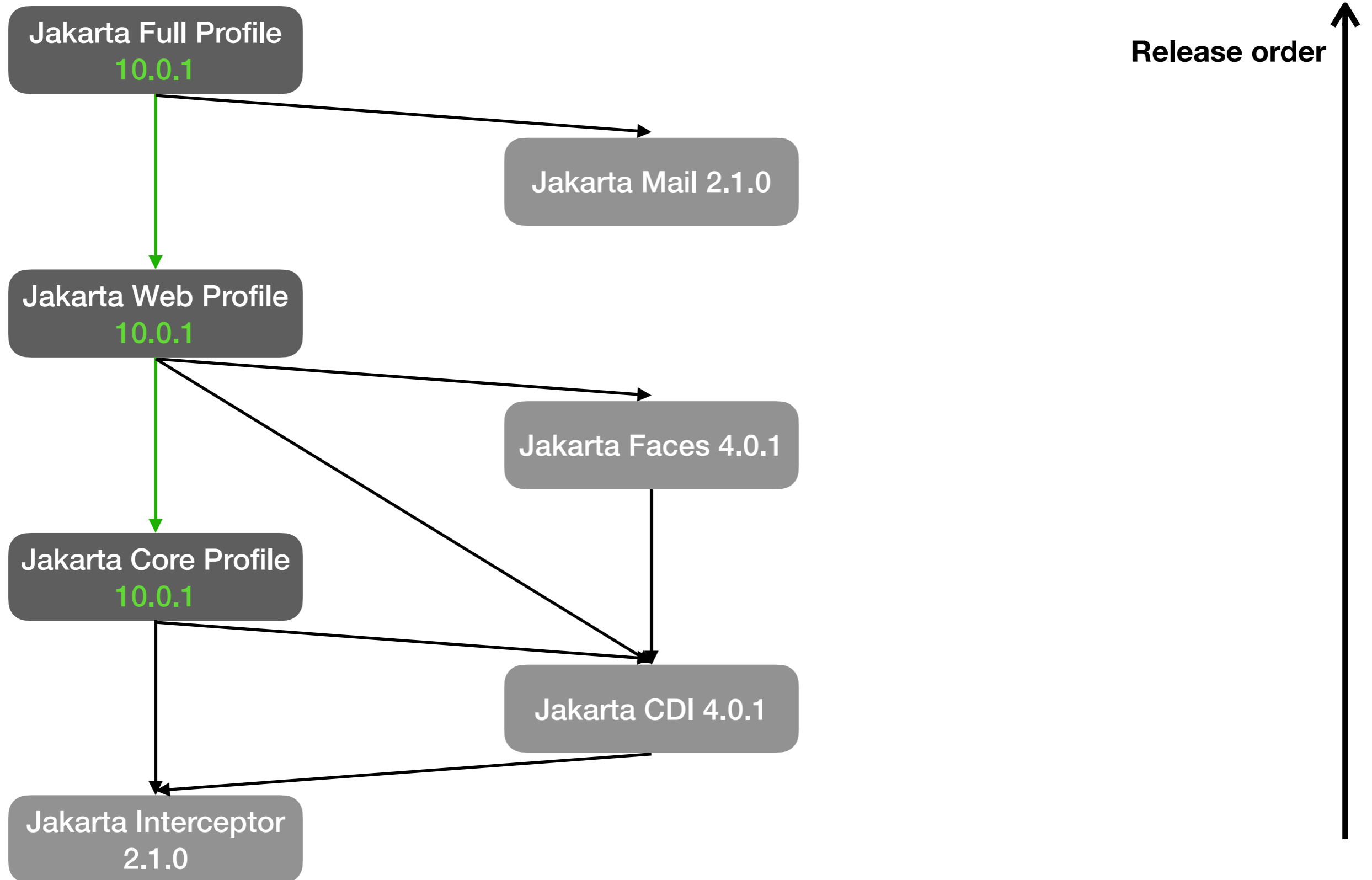
Jakarta EE Platform



Jakarta EE Platform



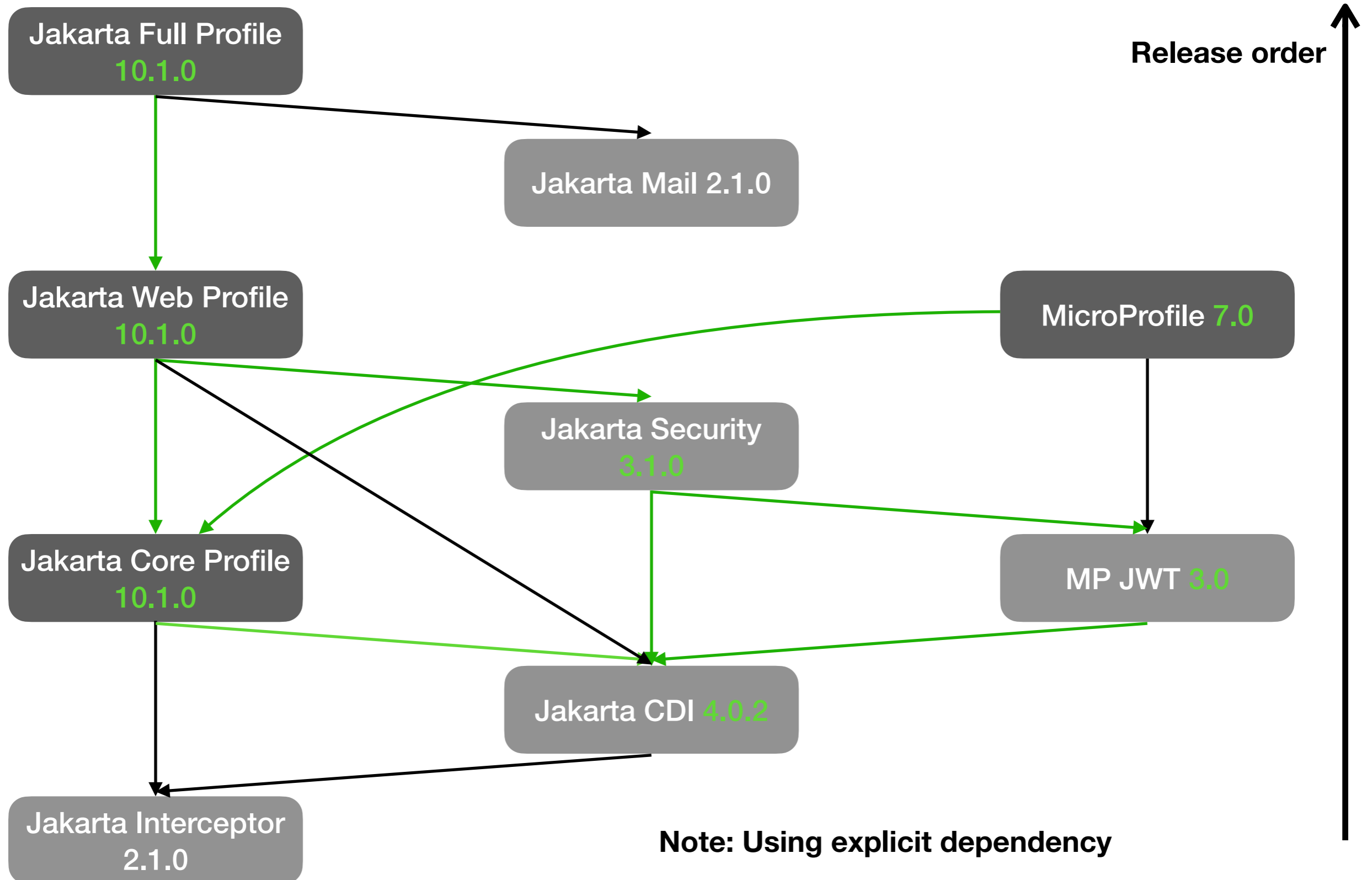
Jakarta EE Platform



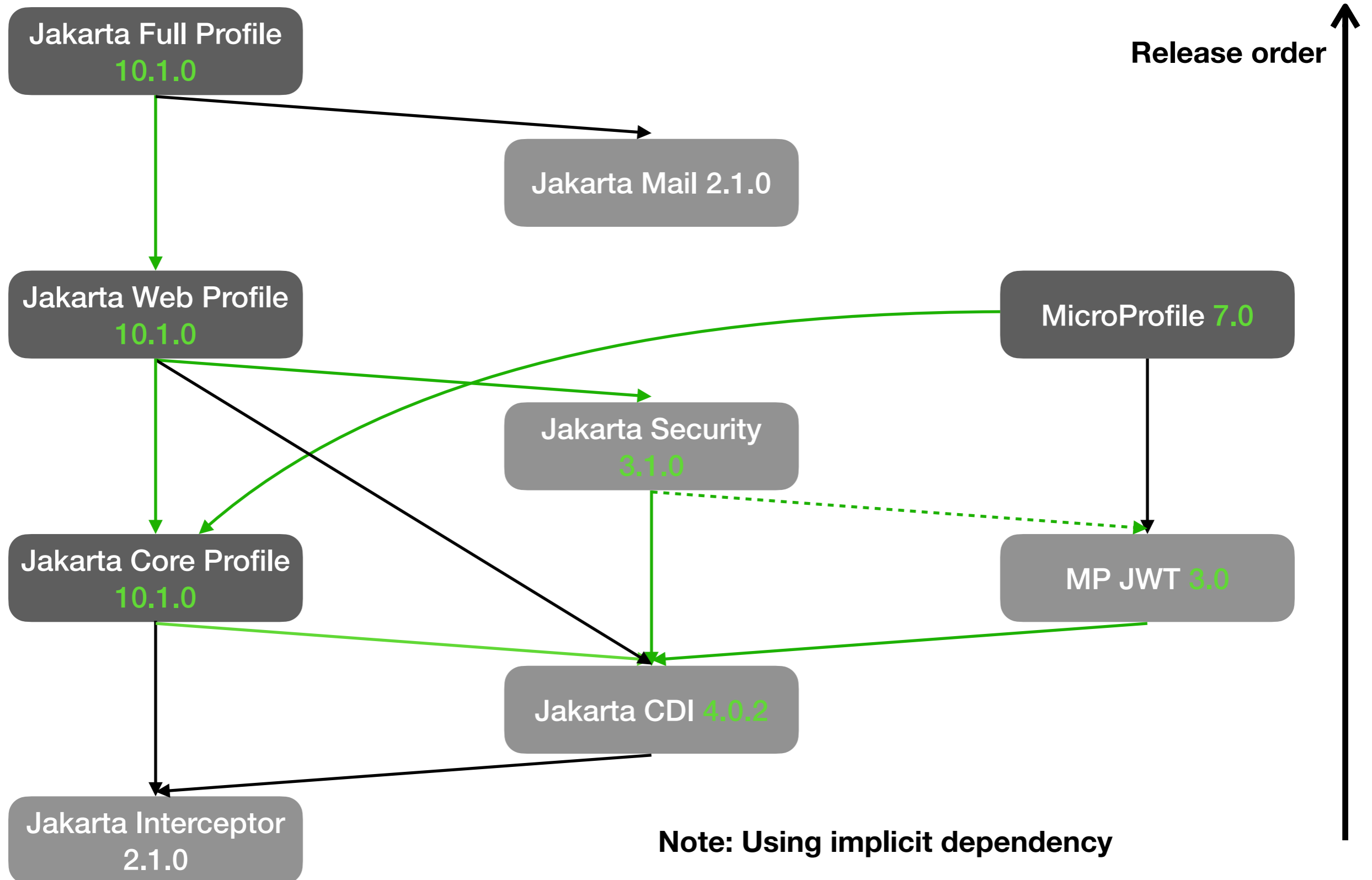
Jakarta Security & MP JWT

- Issue
 - Jakarta Security wants to include or consume (MP) JWT
 - Different organisations and umbrella specs involved
 - Deviation in dependencies and release cycles
- Solution
 - Definition of explicit (strong) dependency
 - Definition of implicit (weak) dependency

Jakarta Security & MP JWT



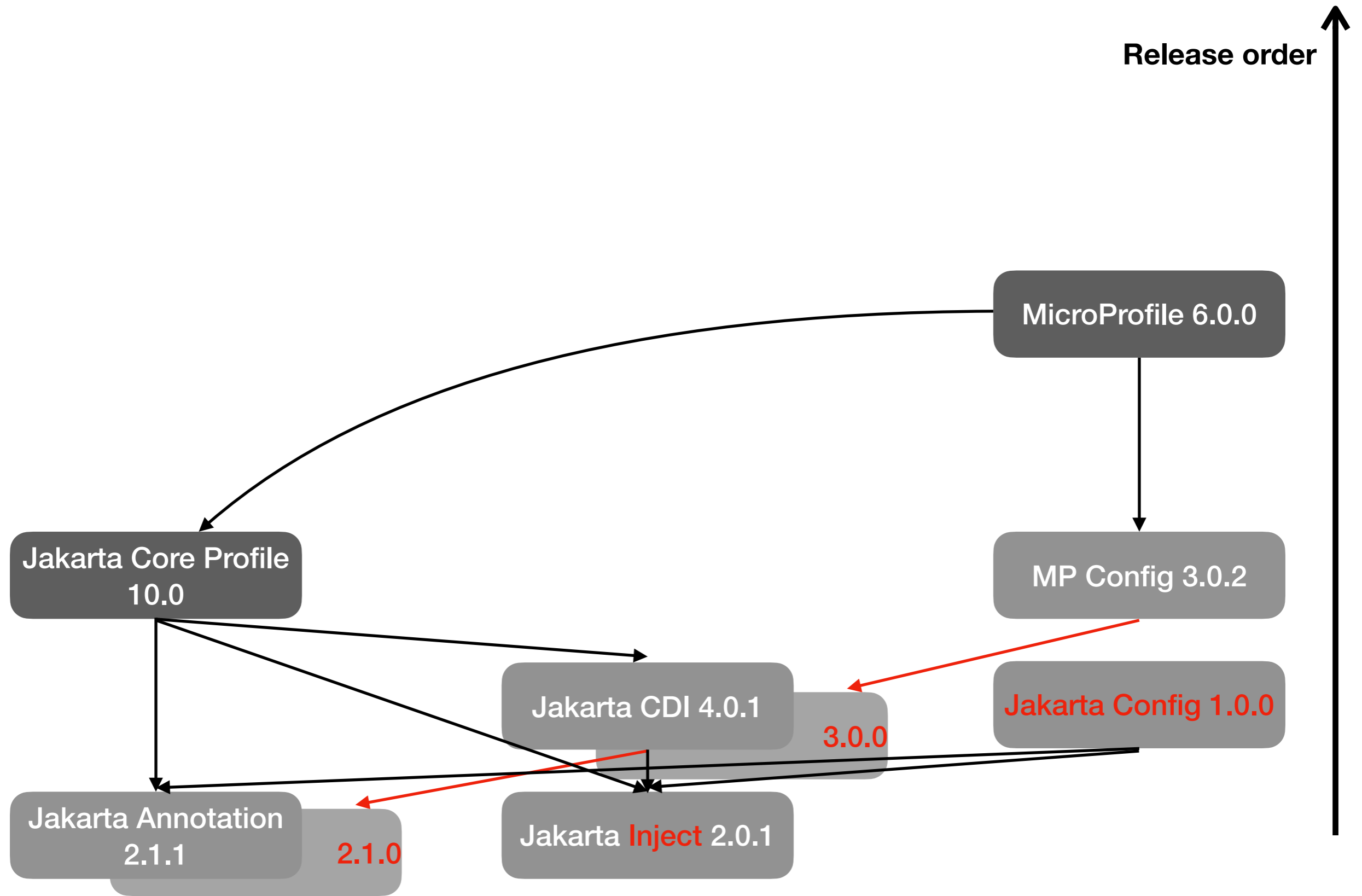
Jakarta Security & MP JWT



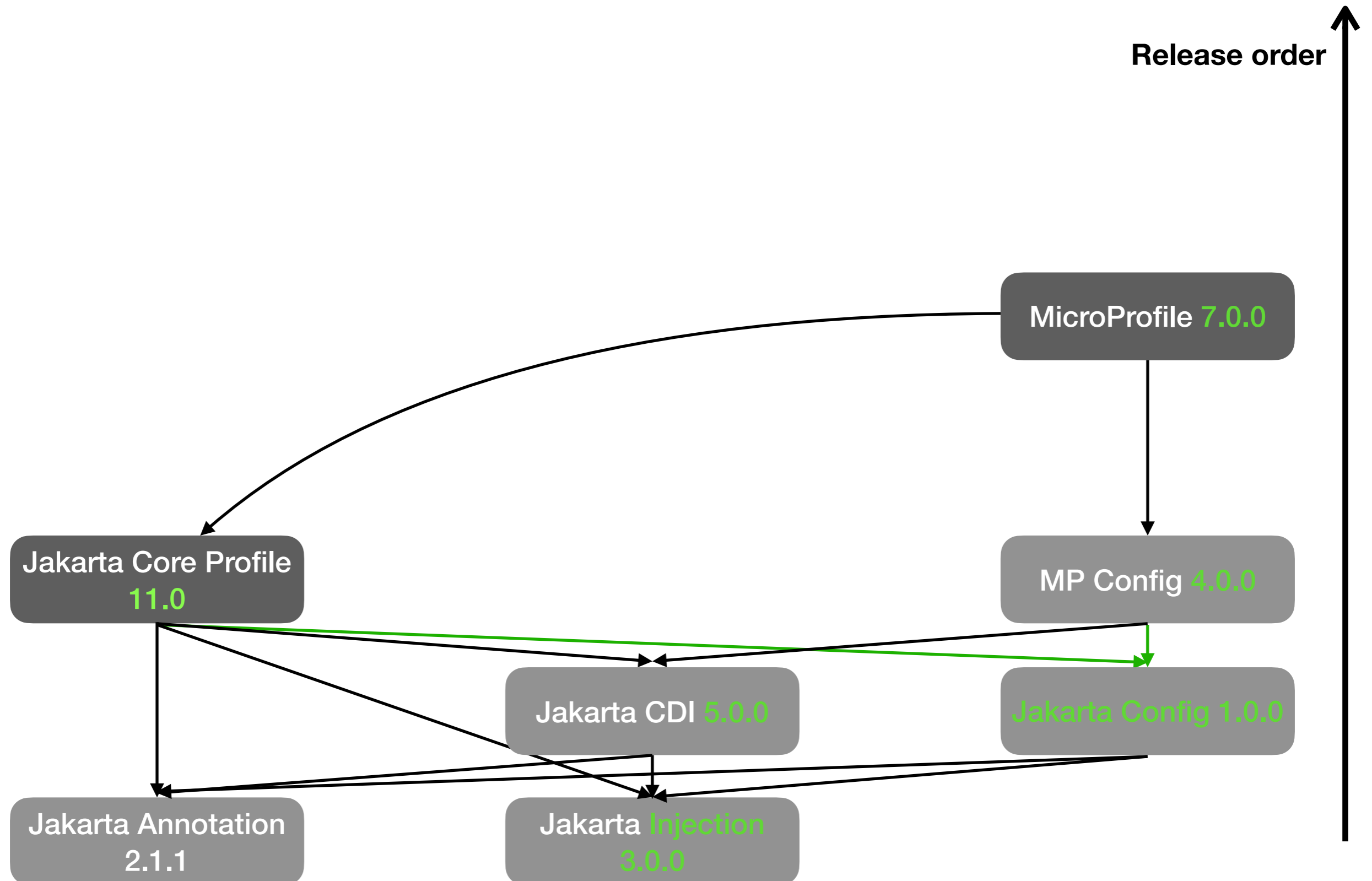
Jakarta Config & MP Config

- Issue
 - First approach to move spec failed (spec modified during transition)
 - Dependency mismatch
- Solution
 - Second MVP approach (defining minimal functionality)
 - Jakarta Config should become real subset of MP Config
 - Renaming of Jakarta Inject(ion)?

Jakarta Config & MP Config



Jakarta Config & MP Config



MP Parent 3.0

Security Issues

- Issue
 - 9 Vulnerabilities in Arquillian 1.7.0-Alpha12
 - 1 Vulnerability in TestNG 7.5
 - N Vulnerabilities in AsciiDoctor Maven Plugin
 - N Vulnerabilities in Jakarta EE Core Profile 10.0
- Solution
 - Update dependencies to latest version
 - Overwrite dependencies with open vulnerabilities as workaround
 - Patch in upstream projects and then update dependencies

MP REST Client 3.0.1

Security Issues

- Issue
 - 9 Vulnerabilities in Arquillian 1.7.0-Alpha12 (from MP Parent 2.6)
 - 1 Vulnerability in TestNG 7.5 (from MP Parent 2.6)
 - 9 Vulnerability in TestNG 7.4 in MP Rest Client API 3.0.1 (!)
 - N Vulnerabilities in AsciiDoctor Maven Plugin (from MP Parent 2.6)
 - N Vulnerabilities in Jakarta EE Core Profile 10.0 (from MP Parent 2.6)
- Solution
 - Update dependencies to latest version
 - Overwrite dependencies with open vulnerabilities as workaround
 - Patch in upstream projects and then update dependencies