JSR 391 & 392 Status
Lifetime of a Platform JSR

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JSR 391: Java SE 16

Specification
- Latest: [https://cr.openjdk.java.net/~iris/se/16/latestSpec](https://cr.openjdk.java.net/~iris/se/16/latestSpec) (DRAFT 35)
- Updates track promotion
- Public Review ends 2021/02/11

Reference Implementation (RI) – JDK 16
- Latest: [https://jdk.java.net/16](https://jdk.java.net/16) (build 35) - Initial Release Candidate (RC) build
- Repository: [https://github.com/openjdk/jdk16](https://github.com/openjdk/jdk16)
- Development limited to high priority bugs
- Triage of incoming bugs on-going
- General Availability (GA): 2021/03/16

Technology Compatibility Took Kit (TCK) – JCK 16
- Code and Doc Freezes last week
- Only a few more promotions expected

Schedule
- 2020/06/02 – 2020/08/31
  Expert Group Formation
- 2021/01/12 – 2021/02/11
  Public Review
- 2021/02/16 – 2021/02/22
  Public Review – Final Approval Ballot
- 2021/03
  Final Release
What’s New in Java SE 16?

6 JDK Enhancement Process (JEP) Proposals
380: Unix-Domain Socket Channels
390: Warnings for Value-Based Classes
394: Pattern Matching for `instanceof`
395: Records
396: Strongly Encapsulate JDK Internals by Default
397: Sealed Classes (Second Preview)

2 JSR Maintenance Releases
199: Java Compiler API [MR4]
269: Pluggable Annotations Processing API [MR10]

99 Compatibility & Specification Review (CSR) Requests
https://bugs.openjdk.java.net/browse/?filter=39068

1 Removed API
`javax.tools.ToolProvider.<init>()`

26 Terminally Deprecated APIs Added
JSR 392: Java SE 17

Specification
• No DRAFTs yet; first expected after JSR 391 Final Release
• Public Review expected this Summer

Reference Implementation (RI) – JDK 17
• Latest: https://jdk.java.net/17 (build 8)
• Repository: https://github.com/openjdk/jdk
• Active discussion on all relevant *-dev mailing lists
• 1 Targeted SE JEP; 11 approved SE CSRs
• No schedule yet, but GA expected 2021/09

Technology Compatibility Took Kit (TCK) – JCK 17
• First promotion expected after JCK 16 GA

Schedule (start dates)
2020/12/07
  Expert Group Formation
2021/06 – 2021/07
  Public Review
2021/07 – 2020/08
  Public Review – Final Approval Ballot
2021/09
  Final Release
What’s New in Java SE 17? (so far)

1 JDK Enhancement Process (JEP) Proposal
   356: Enhance Pseudo-Random Number Generators

1 JSR Maintenance Release
   269: Pluggable Annotations Processing API [MR11]

11 Compatibility & Specification Review (CSR) Requests
   https://bugs.openjdk.java.net/browse/?filter=40170

0 Removed APIs

0 Terminally Deprecated APIs Added
# Lifetime of a Platform JSR

## Spec
- EG page, JEP & CSR Dashboards created to track Spec evolution

## JSR Start/Expert Group Formation
- **RI** Build 1 promoted and published
- **RI** Active discussion on all relevant lists
- **RI** Reviewed changes pushed to repo

## Spec
- New Candidate and Proposed to Target (PPT) SE JEPs announced

## TCK
- Initial Build

## Spec
- Initial DRAFT
- Fork from mainline for stabilization

## Spec
- PR DRAFT 1

## Public Review
- **RI** Initial Release Candidate
- **TCK** Code & Doc Freeze

## Public Review – Final Approval Ballot
- **RI** Final Release Candidate

## Spec
- FR DRAFT 1
- All FR readiness announced

## Final Release
- **JDK/JCK** General Availability (GA)
Resources

- https://openjdk.java.net/projects/jdk/16/spec/
  - https://cr.openjdk.java.net/~iris/se/16/latestSpec/
  - JEPs: https://bugs.openjdk.java.net/secure/Dashboard.jspa?selectPageId=19517
  - CSR: https://bugs.openjdk.java.net/secure/Dashboard.jspa?selectPageId=19518
  - https://mail.openjdk.java.net/mailman/listinfo/java-se-spec-experts
  - https://jdk.java.net/16/

- https://openjdk.java.net/projects/jdk/17/spec/
- https://mail.openjdk.java.net
- https://github.com/openjdk
Glossary

- **{Code, Doc} Freeze [JCK]** – Deadline for the addition of new tests or documentation.
- **Compatibility & Specification Review (CSR) [JDK]** – OpenJDK Group empowered to review interface changes proposed within active JDK Release Projects.
- **{FR, PR} DRAFT [Spec]** – Snapshot of the current Specification for publication on jcp.org.
- **JDK Enhancement Process [JDK]** – Process for collecting, reviewing, sorting, and recording the results of proposals for enhancements to the JDK and for related efforts, such as process and infrastructure improvements.
- **Release Candidate [JDK]** – Build which has the potential to become the final release.
- **SE {CSR, JEP} [JDK]** – CSR Request or JEP Proposal with “Scope” = “SE” indicating that it includes changes to the Java SE Specification.
- **Terminally Deprecated [JDK]** – API with `ForRemoval=true` indicating that it is eligible for removal in a future release.