JSR 393 & 394 Status

Iris Clark
JSR 393, 394 Specification Lead
iris.clark@oracle.com
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JSR 393: Java SE 18

Specification
• Latest: https://cr.openjdk.java.net/~iris/se/18/latestSpec (DRAFT 34)
• Updates track promotion
• Public Review ends 2022/02/21

Reference Implementation (RI) – JDK 18
• Latest: https://jdk.java.net/18 (build 34)
• Initial Release Candidate (RC) build expected 2022/02/10
• Repository: https://github.com/openjdk/jdk18
• Development limited to very high priority bugs
• Triage of incoming bugs on-going
• General Availability (GA): 2022/03/22

Technology Compatibility Took Kit (TCK) – JCK 18
• Code and Doc Freezes this week
• Only a few more promotions expected

Schedule
2021/06/08 – 2021/08/18
Expert Group Formation
2022/01/19 – 2022/02/21
Public Review
2022/02/22 – 2022/02/28
Public Review – Final Approval Ballot
2022/03
Final Release
What’s New in Java SE 18?

4 JDK Enhancement Proposals (JEPs)
400: UTF-8 by Default
418: Internet-Address Resolution SPI
420: Pattern Matching for switch (Second Preview)
421: Deprecate Finalization for Removal

2 JSR Maintenance Releases
199: Java Compiler API [MR6]
269: Pluggable Annotations Processing API [MR12]

73 Compatibility & Specification Review (CSR) Requests
https://bugs.openjdk.java.net/issues/?filter=41149

3 Removed APIs
java.awt.color.ICC_Profile.finalize()
java.awt.image.ColorModel.finalize()
java.awt.image.IndexColorModel.finalize()

16 Terminally Deprecated APIs
JSR 394: Java SE 19

**Specification**
- No DRAFTs yet; first expected after JSR 393 Final Release
- Public Review expected this Summer

**Reference Implementation (RI) – JDK 19**
- Latest: [https://jdk.java.net/19](https://jdk.java.net/19) (build 8)
- Repository: [https://github.com/openjdk/jdk](https://github.com/openjdk/jdk)
- Active discussion on all relevant *-dev mailing lists
- 0 Targeted SE JEPs; 15 approved SE CSRs
- No schedule yet, but GA expected 2022/09

**Technology Compatibility Took Kit (TCK) – JCK 19**
- First promotion expected after JCK 18 GA

**Schedule (start dates)**
- 2021/12/07: Expert Group Formation
- 2022/06 – 2022/07: Public Review
- 2022/07 – 2022/08: Public Review – Final Approval Ballot
- 2022/09: Final Release
# What’s New in Java SE 19? (so far)

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 JDK Enhancement Proposals (JEPs)</td>
<td><a href="https://bugs.openjdk.java.net/issues/?filter=41885">JEPs</a></td>
</tr>
<tr>
<td>15 Compatibility &amp; Specification Review (CSR) Requests</td>
<td><a href="https://bugs.openjdk.java.net/issues/?filter=41881">CSR</a></td>
</tr>
<tr>
<td>1 JSR Maintenance Release</td>
<td>269: Pluggable Annotations Processing API [MR13]</td>
</tr>
<tr>
<td>0 Removed APIs</td>
<td></td>
</tr>
<tr>
<td>0 Terminally Deprecated APIs</td>
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</tr>
</tbody>
</table>
Resources

- https://openjdk.java.net/projects/jdk/18/spec/
  - https://cr.openjdk.java.net/~iris/se/18/latestSpec/
  - JEPs: https://bugs.openjdk.java.net/secure/Dashboard.jspa?selectPageId=20303
  - CSRss: https://bugs.openjdk.java.net/secure/Dashboard.jspa?selectPageId=20304
  - https://mail.openjdk.java.net/mailman/listinfo/java-se-spec-experts
  - https://jdk.java.net/18/

- https://openjdk.java.net/projects/jdk/19/spec/
- https://github.com/openjdk
Resources

• https://mail.openjdk.java.net
  o Overview
    ▪ announce, vuln-announce, discuss, jdk-dev
  o Current release development
    ▪ hotspot-dev, core-libs-dev, client-libs-dev, security-dev, i18n-dev
  o Future feature development
    ▪ amber-dev, loom-dev, panama-dev, valhalla-dev