

JCP Process Document

Version 2.8 (MM DD, 2011)

Revision date: September 21 2011

Comments to: pmo@jcp.org

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8 I EXECUTIVE SUMMARY

9 The international Java community develops and evolves Java™ technology specifications using the
10 Java Community Process (JCP). The JCP produces high-quality specifications using an inclusive,
11 agreement-based approach that produces a Specification, a Reference Implementation (to prove the
12 Specification can be implemented), and a Technology Compatibility Kit (a suite of tests, tools, and
13 documentation that is used to test implementations for compliance with the Specification).

14 Experience has shown that the best way to produce a technology specification is to gather a group of
15 industry experts who have a deep understanding of the technology in question and then have a strong
16 technical lead work with that group to create a first draft. Agreement around the form and content of
17 the draft is then built using an iterative review process that allows an ever-widening audience to review
18 and comment on the document.

19 An Executive Committee (EC) representing a cross-section of both major stakeholders and other
20 members of the Java community is responsible for approving the passage of Specifications through
21 the JCP's various stages and for reconciling discrepancies between Specifications and their
22 associated test suites. There are two ECs: one to oversee the Java technologies for the
23 desktop/server space (with responsibility for the Java SE™ and Java EE™ Specifications) and the
24 other to oversee the Java technologies for the consumer/embedded space (with responsibility for the
25 Java ME™ Specification). The EC's are considering merging the two bodies into a single one in the
26 near future, so newly elected EC members should be aware that their terms may vary from what is
27 specified in section 6.4, "EC SELECTION PROCESS AND LENGTH OF TERM"

28 There are four major stages in this version of the JCP:

- 29 1. **INITIATION:** A Specification targeted at the desktop/server or consumer/embedded space is
30 initiated by one or more Members and approved for development by the responsible EC. A
31 group of experts is formed to assist the Spec Lead with the development of the Specification.
- 32 2. **DRAFT RELEASES:** The Expert Group develops the Specification through an iterative
33 process, releasing drafts for public review and comment. After the formal Public Review the EC
34 holds a ballot on whether the JSR should proceed to the Final Release stage.
- 35 3. **FINAL RELEASE:** The Spec Lead submits the Specification to the PMO for publication as the
36 Proposed Final Draft. When the RI and TCK are completed, and the RI passes the TCK, the
37 Specification, the RI, and the TCK are submitted to the PMO, which circulates them to the
38 responsible EC for final approval.
- 39 4. **MAINTENANCE:** The Specification, Reference Implementation, and Technology Compatibility
40 Kit are updated in response to ongoing requests for clarification, interpretation, enhancements,
41 and revisions. The responsible EC reviews proposed changes to the Specification and
42 indicates which can be carried out immediately and which shall require the changes to be
43 implemented in a new JSR.

44 This version of the JCP was developed using the Java Community Process itself by means of JSR
45 348, led by Oracle and the combined Executive Committees as the Expert Group.

46 II DEFINITIONS

47 **Agent:** an individual - for example an employee, a contractor, or an officer - who is
48 authorized to act on behalf of a company or organization.

49 **Appeal Ballot:** The EC ballot to override a first-level decision on a TCK test challenge.

50 **Ballot:** See Appeal Ballot, Final Approval Ballot, Final Approval Reconsideration Ballot,
51 JSR Approval Ballot, JSR Reconsideration Ballot, JSR Renewal Ballot, JSR Renewal

52 Reconsideration Ballot, JSR Withdrawal Ballot, Maintenance Review Ballot, Maintenance
53 Renewal Ballot, Maintenance Release Withdrawal Ballot, Public Draft Specification
54 Approval Ballot, Public Draft Specification Reconsideration Ballot, Transfer Ballot.

55 **Contribution Agreement:** A legal agreement defining the terms, particularly those
56 concerning the grant of intellectual property rights, under which contributions are made to
57 a project.

58 **Dormant Specification (Dormant):** A Specification that the PMO has determined has no
59 assigned Specification Lead or Maintenance Lead, or that is not being actively developed
60 and on which no further development is anticipated.

61 **Early Draft Review:** A 30 to 90 day period during which the public reviews and comments
62 on the draft Specification.

63 **Elected Seat:** An EC seat filled by the election process described in section 6.4.4.

64 **Executive Committee (EC):** The Members who guide the evolution of the Java
65 technologies. The EC represents a cross-section of both major stakeholders and other
66 Members of the Java Community. EC members are appointed in an annual election
67 process. The EC Policies and Procedures are in the EC Standing Rules, which is a
68 separate document.

69 **Expert:** A Member or Member Representative who has expert knowledge and is an active
70 practitioner in the technology covered by the JSR.

71 **Expert Group (EG):** The group of Experts who develop or make significant revisions to a
72 Specification.

73 **Final Approval Ballot:** The 14-day EC ballot to approve the Final Draft along with its
74 associated RI and TCK.

75 **Final Approval Reconsideration Ballot:** The 14-day EC ballot to reconsider an initial
76 rejection of a Final Draft, RI, and TCK.

77 **Final Draft:** The final draft of the Specification that will be put forward for EC approval.

78 **Final Release:** The final stage in the JSR development process when the Specification,
79 RI, and TCK have been completed and can be licensed by implementors.

80 **First-Level TCK Appeals Process:** The process defined by the Spec Lead that allows
81 implementors of the Specification to appeal one or more tests defined by the
82 Specification's TCK.

83 **Issue:** an explicit reference to an item defined in an Issue Tracker.

84 **Issue List:** A list of Issues generated from an Issue Tracker, identifying the disposition of
85 each.

86 **Issue Tracker:** A mechanism to allow issues (problems, tasks, comments, or requests for

change) to be recorded and tracked by priority, status, owner, or other criteria. The Issue Tracker should permit issues to be identified by states such as open, resolved, and closed and should support the assignment of resolution types such as deferred (postponed to a follow-on release,) fixed (implemented,) challenged (no satisfactory resolution,) and rejected (deemed inappropriate or out of scope.)

Java Community Process (JCP): The formal process described in this document for developing or revising Java technology Specifications.

Java Community Process Member (Member): A company, organization, or individual that has signed the JSPA and is abiding by its terms.

Java Specification (Specification): A written specification for some aspect of the Java technology. This includes the language, virtual machine, Platform Editions, Profiles, and application programming interfaces.

Java Specification Request (JSR): The document submitted to the PMO by one or more Members to propose the development of a new Specification or significant revision to an existing Specification.

Java Specification Participation Agreement (JSPA): A one-year renewable agreement between Oracle America and a company, organization or individual that allows the latter entities to participate in the Java Community Process.

JCP Web Site: The web site where anyone can stay informed about JCP activities, download draft and final Specifications, and follow the progress of Specifications through the JCP.

JSR Approval Ballot: The EC ballot to determine if the initial JSR submission should be approved

JSR Reconsideration Ballot: The EC ballot to determine if a revision of an initial JSR submission should be approved.

JSR Page: Each JSR has a dedicated public web page on the JCP Web Site where the JSR's history is recorded and where other relevant information about the JSR is published.

JSR Renewal Ballot: An EC ballot to confirm that a JSR should continue in its work.

JSR Renewal Reconsideration Ballot: An EC ballot to determine if a revised JSR should continue its work.

JSR Review: A four week period during which the public can review and comment on a proposed new JSR before the JSR Approval Ballot.

JSR Withdrawal Ballot: An EC ballot to confirm that a completed JSR that appears to have been abandoned should be withdrawn.

Maintenance Lead (ML): The Expert responsible for maintaining the Specification.

Maintenance Lead Member: The individual JCP member who is a Maintenance Lead, or

123 otherwise the company or organization that is represented by the Maintenance Lead.

124 **Maintenance Release:** The final stage in the JSR maintenance process when the
125 Specification, RI, and TCK have been updated and can be licensed by implementors.

126 **Maintenance Review:** A period of at least 30 days prior to finalization of a Maintenance
127 Release when Members and the public consider and comment on the change the
128 Maintenance Lead proposes to include in the release, as identified in the associated Issue
129 List.

130 **Maintenance Review Ballot:** An EC ballot to determine whether the changes and time
131 line proposed by a Maintenance Lead are appropriate for a Maintenance Release.

132 **Maintenance Renewal Ballot:** a ballot during which EC members vote on whether to
133 permit a Maintenance Lead to extend the deadline for delivery of materials for
134 Maintenance Release, or whether the previous Maintenance Review should be rescinded
135 and the ML be required to start the process again.

136 **Maintenance Release Withdrawal Ballot:** An EC ballot to confirm that a completed
137 Maintenance Release that appears to have been abandoned should be withdrawn.

138 **Member:** See Agent, Java Community Process Member, Member Associate, Member
139 Representative.

140 **Member Associate:** An individual who is associated with a Member organization but is not
141 an Agent of that organization.

142 **Member Representative:** An Agent of a Member company or a Member organization who
143 represents its interests within the JCP.

144 **Platform Edition Specification (Platform Edition):** A Specification that defines a
145 baseline API set that provides a foundation upon which applications, other APIs, and
146 Profiles can be built. There are currently three Platform Edition Specifications: Java SE,
147 Java EE, and Java ME.

148 **Profile Specification (Profile):** A Specification that references one of the Platform Edition
149 Specifications and zero or more other JCP Specifications (that are not already a part of a
150 Platform Edition Specification). APIs from the referenced Platform Edition must be included
151 according to the referencing rules set out in that Platform Edition Specification. Other
152 referenced Specifications must be referenced in their entirety.

153 **Program Management Office (PMO):** The group within Oracle America that is
154 responsible for administering the JCP and chairing the EC.

155 **Proposed Final Draft:** The version of the draft Specification that will be used as the basis
156 for the RI and TCK.

157 **Public Draft Specification Approval Ballot :** The EC ballot to determine if a draft should
158 proceed after Public Review.

159 **Public Draft Specification Reconsideration Ballot :** The EC ballot to determine if a

160 revised draft should proceed after Public Review.

161 **Public Review:** A 30 to 90 day period when the public can review and comment on the
162 draft Specification.

163 **Ratified Seat:** An EC seat filled by the ratification process described in section 6.4.3.

164 **Reference Implementation (RI):** The prototype or "proof of concept" implementation of a
165 Specification.

166 **Release:** A Final Release or a Maintenance Release

167 **Specification:** See Java Specification.

168 **Specification Lead (Spec Lead):** The Expert responsible for leading the effort to develop
169 or make significant revisions to a Specification and for completing the associated
170 Reference Implementation and Technology Compatibility Kit. A Spec Lead (or the Spec
171 Lead's host company or organization) must be a Java Community Process Member.

172 **Specification Lead Member (Spec Lead Member):** The individual JCP member who is a
173 Spec Lead, or otherwise the company or organization that is represented by the Spec
174 Lead.

175 **Technology Compatibility Kit (TCK):** The suite of tests, tools, and documentation that
176 allows an organization to determine if its implementation is compliant with the
177 Specification.

178 **Transfer Ballot:** The EC ballot to approve transfer of ownership of a Specification, RI, and
179 TCK from one Member to another Member.¹

180 **Umbrella Java Specification Request (UJSR):** A JSR that defines or revises a Platform
181 Edition or Profile Specification. A UJSR proceeds through the JCP like any other JSR.

182 The use of the term **day** or **days** in this document refers to calendar days unless otherwise
183 specified.

184 The use of the words "must", "must not", "required", "shall", "shall not", "should", "should
185 not", "recommended", "may" and "optional" in this document is done in accordance with the
186 IETF's [RFC 2119](#).

¹ Transfer of ownership does not mean transfer of IP rights, only transfer of the right to start again. The new Spec Lead can, however, negotiate a transfer of IP with the old Spec Lead.

187 III THE JAVA COMMUNITY PROCESS SM PROGRAM

188 1. GENERAL PROCEDURES

189 1.1 EXPERT GROUP TRANSPARENCY

190 Each Expert Group is free to use the working style that it finds most productive and appropriate, so
191 long as this is compatible with the requirements specified in this document. For example, EGs may
192 choose to operate by seeking to advance only when there is general agreement among its members,
193 or by voting on issues when there is disagreement.

194 As specified below, Expert Groups must operate in a transparent manner, enabling the public to
195 observe their deliberations and to provide feedback. All feedback must be taken into consideration and
196 public responses must be provided. They must maintain a publicly-accessible document archive, from
197 where all of their working materials such as source documents, meeting agendas and minutes, and
198 draft documents can be downloaded. The EC should take the Expert Group's transparency record into
199 consideration when voting on its JSR.

200 In the initial JSR submission the Spec Lead must specify the transparency mechanisms (for example,
201 the communication mechanisms and Issue Tracker) that the Expert Group intends to adopt, and must
202 provide the URLs for accessing the chosen collaboration tools. The PMO shall publish this information
203 on the public JSR Page. The Spec Lead must also provide a pointer to any Terms of Use required to
204 use the collaboration tools so that the EC and prospective EG members can judge whether they are
205 compatible with the JSPA.

206 If the EG changes its collaboration tools during the life of the JSR these changes must be reported to
207 the PMO, which shall update the relevant information on the JSR Page. Any such changes must
208 ensure that previously-published information is incorporated into the new tools. When voting to
209 approve a JSR's transition to the next stage, EC members are expected to take into consideration the
210 extent to which the Spec Lead is meeting the transparency requirements.

211 Spec Leads should be aware of their obligations under the JSPA to license the output of their JSR on
212 Fair, Reasonable, and Non Discriminatory terms, and to make certain patent grants. Incorporating
213 feedback provided through public email lists or forums without ensuring that the provider has signed
214 the JSPA or an equivalent Contribution Agreement may make it impossible to meet these
215 requirements or may expose the Spec Lead Member to legal liability.

216 The use of *Confidential materials* (as defined in the JSPA) by Expert Groups limits transparency, is
217 strongly discouraged, and will be prohibited in a future version of the Process. If the Spec Lead
218 intends to permit the use of *Confidential materials* (such as emails, drafts or submissions marked as
219 *Confidential*), this must be specified in the initial Java Specification Request.²

220 1.1.1 PUBLIC COMMUNICATIONS

221 Expert Groups may choose to keep purely administrative matters private but all substantive business
222 must be performed in a manner that allows the public to observe their work and to respond to it. All
223 proceedings, discussions, and working documents must be published, and a mechanism must be
224 established to allow the public to provide feedback. One common way of meeting these requirements
225 is through the use of one or more mailing lists, but other alternatives such as blogs, Wikis, and
226 discussion forums may be preferred. Whatever communication mechanisms are chosen, these must
227 include an archiving function so that a record of all communications is preserved. Archives must be
228 readable by the public.³

2 The EC intends to remove the Confidentiality language from the next version of the JSPA.

3 This should not be interpreted as a requirement that Expert Groups create or maintain audio or video recordings of their

229 **1.1.2 ISSUE TRACKING**

230 Issues must be tracked through a publicly readable Issue Tracker. The Expert Group may choose to
231 use a publicly writable Issue Tracker, thereby permitting the public to log issues directly, or
232 alternatively to identify formal comments in some other manner and to enter them into the Issue
233 Tracker on behalf of the submitter. Whatever mechanism is used, a publicly-readable audit trail of all
234 comments and Issues must be maintained.

235 Whenever a Spec Lead or a Maintenance Lead submits materials to the PMO for review or ballot they
236 must also provide an Issue List indicating the disposition of all of the Issues that have been logged
237 against the JSR. Issues logged late in the review cycle may be deferred for later consideration, and
238 Issues that are blatantly off-topic or that appear to have submitted maliciously or erroneously may be
239 ignored.

240 In order to enable EC members to judge whether Issues have been adequately addressed, the Issue
241 List must make a clear distinction between Issues that are still open, Issues that have been deferred,
242 and those that are closed, and must indicate the reason for any change of state.

243 The PMO shall publish the Issue List or a pointer to it together with the other materials.

244 EC members should review the supplied Issue List and take it into consideration when casting their
245 ballot. If they have any reservations or concerns about a 'yes' vote, or if they wish to vote 'no,' they
246 should accompany their ballot with comments which reference one or more Issues (perhaps logged by
247 them) that they would like to see addressed in the future. EC members should vote 'no' if they believe
248 that the Spec Lead or Maintenance Lead has not adequately addressed all Issues including those that
249 have been rejected or otherwise closed by the Expert Group.

250 **1.1.3 CHANGES TO LICENSING TERMS**

251 As described in Section 2.2.1 below, the proposed licensing terms must be disclosed during JSR
252 submission. The Specification license must not be modified after initial submission since to do so
253 could invalidate IP grants. It may be necessary, however, to modify the proposed RI or TCK license.
254 Any such changes must be disclosed when the Specification is next submitted to the PMO for public
255 posting or review.

256 For as long as a JSR is licensed and while it is legally possible to do so the Spec Lead Member must
257 offer the RI and TCK licenses that were published at the time of Final Release, with the exception that
258 reasonable increases in price are permitted. At subsequent Maintenance Releases alternate RI or
259 TCK licenses may also be offered so long as all changes are disclosed, but licensees must be free to
260 choose the original terms if they wish. For example, existing licensees who do not wish to accept a
261 modified license when required to adopt a newer TCK shall have the option to license the updated
262 TCK under the previous terms. If a JSR changes hands the new Maintenance Lead Member must
263 present a license with terms comparable to or more favorable to licensees than the existing license.

264 When a newer version of a technology is created through a follow-on JSR, the Specification, RI, and
265 TCK license terms for the new JSR may differ from those offered for the previous JSR, but any such
266 changes must be disclosed during JSR submission. The original terms for the previous JSR must be
267 offered for as long as that JSR is licensed.

268 **1.2 EXPERT GROUP MEMBERSHIP**

269 **1.2.1 EXPERT GROUP COMPOSITION**

270 There is no size limit on the Expert Group. The Spec Lead may add additional Experts at any time

meetings.

271 provided the existing EG members are consulted. New members may be added, for example, to
272 increase diversity of opinion.

273 Any JCP Member, Member Representative, or Member Associate may request to join an Expert Group
274 at any time by submitting their nomination via the online form provided on the JSR Page. Member
275 Associates, since they are not covered by the JSPA of their organization, must sign the JSPA in their
276 own right before they will be permitted to join an Expert Group. Details of such requests, including the
277 organizational affiliation of the requester, together with the Spec Lead's official response, substantive
278 deliberations within the EG about the matter, and any other official decisions related to EG
279 membership must be published through the EG's public communication channel. The PMO will ensure
280 that the JSR Page lists the Members who are members of the EG together with the names of
281 individual Member Representatives or Member Associates where appropriate.

282 **1.2.2 WITHDRAWAL OF AN EXPERT FROM THE EXPERT GROUP**

283 An Expert may withdraw from the Expert Group at any time. If the withdrawing Expert is the Spec
284 Lead, the Expert Group, with the help of the PMO, should approach the Member who originally
285 contributed the Expert, if any, and request them to provide a suitable replacement; if no such
286 replacement is forthcoming, the Expert Group should choose one of its members as the new Spec
287 Lead. If the withdrawing Expert is not the Spec Lead, the Spec Lead should approach the Member
288 who originally contributed the Expert, if any, and work with that organization to find a suitable
289 replacement. If no replacement is offered or is not otherwise available, the Spec Lead may recruit a
290 replacement from amongst other Members.

291 **1.2.3 DISRUPTIVE, UNCOOPERATIVE OR UNRESPONSIVE EXPERT GROUP MEMBERS**

292 There may be rare instances when members of the Expert Group feel that one of their fellow Experts
293 is not acting in ways that advance the work of the Expert Group, and is being disruptive,
294 uncooperative or unresponsive. EG members are expected to make a reasonable effort to resolve any
295 such issues among themselves, with the active help of the Spec Lead. However, if the situation cannot
296 be resolved in a timely manner, any three members of the EG can approach the Spec Lead and
297 request that the EG member in question be excluded from further participation in the EG. If the Spec
298 Lead agrees to the request he can then do so. In the case where the EG Member in question is a
299 Member Representative, the Spec Lead must first request that the Member replace its representative.
300 If the Member does not do so in a timely manner, the Spec Lead can exclude the Member itself from
301 further EG participation. The Spec Lead's decision as to whether or not to exclude can be appealed to
302 the EC by following the process outlined in Section 1.7, "Escalation and Appeals"

303 **1.2.4 UNRESPONSIVE OR INACTIVE SPEC LEAD**

304 There may be rare instances when members of the Expert Group feel that the Spec Lead is not acting
305 in ways that advance the work of the Expert Group and is being unresponsive or inactive. These
306 concerns should be brought to the attention of the EC as quickly as possible so they may be
307 proactively addressed and resolved. The EC is expected to make a reasonable effort to resolve any
308 such issues in a timely manner. However, if the situation cannot be resolved in a timely manner, any
309 three members of the EG may request the EC to replace the Spec Lead for cause (which should be
310 made clear and documented to the EC). If the EC agrees that there is cause, it may ask the PMO to
311 replace the Spec Lead. In the case where the Spec Lead is a Member Representative the PMO shall
312 ask the Member to replace the Spec Lead. If the Member refuses to do so, the PMO shall seek to put
313 in place an alternative Spec Lead, in which case the EC must conduct a transfer ballot as specified in
314 section 5.1.2 of this document. If no Spec Lead replacement can be found, the EC shall initiate a JSR
315 Renewal Ballot to determine whether the JSR should be shut down.

316 **1.3 JSR DEADLINES**

317 If a JSR does not begin Early Draft Review within 9 months of completing its JSR Approval Ballot, or
318 does not begin Public Review within 12 months of first submitting an Early Draft, or does not reach
319 Final Release within 12 months of commencing Public Review, then the EC should initiate a JSR
320 Renewal Ballot unless it is agreed that there are extraordinary circumstances that justify the delay. The
321 PMO shall inform the Spec Lead and Expert Group of this decision and will request the Spec Lead
322 and Expert Group to prepare a public statement to the EC. The JSR Renewal Ballot shall start 30 days
323 after the request. If the JSR Renewal Ballot is approved by the EC, then another renewal ballot cannot
324 be initiated for that JSR for an additional year.

325 If the JSR Renewal Ballot fails, the Expert Group will have 30 days to update the JSR in response to
326 the concerns raised by the EC, and may submit a revised version to the PMO. If a revised JSR is not
327 received by the end of the 30 days, the original decision by the EC shall stand and the JSR shall be
328 closed. If a revision is received, then the PMO shall forward it to the EC and initiate a JSR Renewal
329 Reconsideration Ballot. At the close of balloting, all comments submitted by EC members, together
330 with their ballots shall be circulated to the Expert Group by the PMO. If this ballot fails, the JSR shall
331 be closed and the Expert Group shall disband.

332 If a JSR that is closed through these processes was a revision to an existing Specification, the Spec
333 Lead shall resume the role of Maintenance Lead of the current Specification.

334 **1.4 COMPATIBILITY TESTING**

335 The Spec Lead is responsible for defining the process whereby the TCK is used to certify
336 implementations of the JSR as compatible. The Maintenance Lead must submit to the PMO at least
337 quarterly a list of all implementations that have been certified as compatible and that have been
338 released publicly or commercially. The PMO will publish this information on the JCP website. If the
339 Spec Lead submits the information in the form of a pointer to an already published list the PMO may
340 choose simply to reference that list rather than duplicate it.

341 TCK license terms must permit implementors to freely and publicly discuss the testing process and
342 detailed TCK test results with all interested parties.

343 **1.5 EXECUTIVE COMMITTEE DUTIES**

344 **1.5.1 TRANSPARENCY**

345 All substantive Executive Committee business should be conducted in the most transparent manner
346 possible. EC transparency requirements are specified in a separate document, EC Standing Rules.

347 **1.5.2 DRAFT REVIEWS**

348 During Draft Review periods EC members are strongly encouraged to have one or more technical
349 members of their organizations review the draft and to provide feedback using the mechanism
350 specified by the Spec Lead. EC feedback is particularly important to the Expert Group, and EC
351 members are encouraged not to wait until ballot periods to raise concerns and issues.

352 **1.6 PMO RESPONSE TIMES**

353 Materials to be posted on the JCP website for review, comment, or any other official EG or EC
354 business should be submitted to the PMO, which shall post them on the website and announce their
355 availability to Members and the public within seven days of receipt (holiday closures excepted.)

356 1.7 ESCALATION AND APPEALS

357 Unless otherwise specified in this document, any EG member can appeal to the EC regarding a
358 decision, an action or inaction by the PMO, a Spec Lead, or a Maintenance Lead that affects EG
359 participation or issue-resolution and which cannot be resolved by other reasonable means. An appeal
360 must be initiated by sending an email message to the PMO (pmo@jcp.org) in all cases, even if it
361 affects the PMO. The message must describe the issue under appeal clearly and concisely, with a
362 short and relevant Subject: line, and provide all relevant documentation to support the appeal. The
363 PMO shall transmit the message to the EC no later than seven days after receipt. The EC shall then
364 respond to the appellant within 30 days, either with a resolution or with a request for clarification
365 and/or further documentation.

366 2. INITIATE A NEW OR REVISED SPECIFICATION

367 2.1 INITIATE A JAVA SPECIFICATION REQUEST

368 One or more Members may initiate a request to develop a new Specification, or carry out a significant
369 revision to an existing one, by submitting the JSR Proposal through the JCP website, as described in
370 the [Spec Lead Guide](#). Any JSR under consideration can be withdrawn by its submitter(s) without
371 explanation at any time prior to the completion of the JSR Approval Ballot (see section 2.3) upon
372 request by the submitter(s) to the PMO.

373 The following is some of the information required to be included with each JSR:

- 374 • the Members making the request (the submitters), the proposed Spec Lead, and the initial
375 members of the Expert Group.
- 376 • a description of the proposed Specification.
- 377 • the reason(s) for developing or revising it.
- 378 • the primary Platform Edition, as well as any consideration given to other Platform Editions.
- 379 • an estimated development schedule.
- 380 • any preexisting documents, technology descriptions, or implementations that might be used as
381 a starting point.
- 382 • a transparency plan, which outlines the tools and techniques that the Spec Lead will use,
383 during the creation and development of the Specification, and for communicating the progress
384 within the Expert Group to Community Members, EC Members and the public. The EC will
385 expect the Spec Lead to operate the JSR in accordance with this plan.

386 2.1.1 REVISE EXISTING SPECIFICATIONS

387 Existing Specifications, together with their associated RIs and TCKs, are maintained by a designated
388 Maintenance Lead using the processes described in section 5 of this document. Maintenance Lead
389 Members are expected to assume long term ownership of the Specification, RI, and TCK while
390 respecting the wishes of the Java Community Members with regard to evolution. Maintenance Leads
391 shall therefore be the Spec Leads for all significant revisions to their Specifications, but they shall not
392 have the exclusive right to decide when a significant revision will take place. That shall be decided by
393 the EC in response to a revision JSR that can be initiated by any Java Community Member.
394 Submitter(s) should make a reasonable effort to get some of the members of the previous Expert
395 Group to join the revision effort.

396 2.1.2 PROTECT THE INSTALLED BASE AND GUARD AGAINST FRAGMENTATION

397 Changes to the Java programming language, the Java virtual machine (JVM), the Java Native
398 Interface (JNI), packages in the "java.*" space, or other packages delivered only as part of Java SE,

399 have the potential to seriously disrupt the installed base if carried out inconsistently across the
400 Platform Editions. In order to protect the installed base, any such changes can only be accepted and
401 carried out within a UJSR for Java SE.

402 In order to guard against fragmentation, new Platform Edition Specifications must not substantially
403 duplicate existing Platform Editions or Profiles.

404 **2.1.3 PROFILES AND API SPECIFICATIONS TARGET CURRENT PLATFORM EDITIONS**

405 All new or revised Specifications must be compatible with the most recent versions of the targeted
406 Platform Edition Specifications. In order to achieve this, all UJSRs to define new Profile Specifications
407 or revise existing Profile Specifications must reference either the most recent Release version of the
408 Platform Edition Specification they are based upon or a newer version of that Specification that is
409 under development via an active UJSR.

410 **2.1.4 PLATFORM INCLUSION**

411 The technology that a JSR defines can be delivered as part of a Profile or Platform Edition, it can be
412 delivered stand-alone, or both. The JSR submission form requires the submitter to state whether the
413 JSR's RI and TCK should be delivered as part of a Profile or Platform Edition, in stand-alone manner,
414 or both. The final decision whether a specific JSR is included in a Profile or a Platform Edition is made
415 by the Spec Lead and Expert Group of that Platform Edition JSR or Profile JSR, and confirmed by the
416 EC ballots on those JSRs. If the Platform Edition or Profile JSR turns down the request for inclusion,
417 then the JSR for the API shall be required to deliver a stand-alone RI and TCK.

418 Technologies may be incorporated into a Profile or Platform Edition after having been initially delivered
419 standalone. A JSR for a new version of an API that proposes to become part of a Profile or Platform
420 Edition and is considering discontinuing stand-alone availability must state the rationale for this
421 change. The public must be informed of the intention to discontinue the availability of the standalone
422 RI and TCK one JSR submission in advance.

423 **2.2 JSR REVIEW**

424 When a JSR is received, the PMO shall give it a tracking number, assign the JSR to the appropriate
425 EC (or to both ECs if so requested by the submitter), create its JSR Page, announce the proposed
426 JSR to the public, and begin JSR Review. Comments on the JSR should be sent to the JSR's public
427 feedback communication mechanism. Comments shall be forwarded to the EC for its consideration
428 and shall be made available from the JSR Page (similar comments may be consolidated.). Members
429 who are interested in joining the Expert Group (should the JSR be approved) should identify
430 themselves by submitting a nomination form to the PMO.

431 **2.2.1 DISCLOSURE OF LICENSING TERMS**

432 The Spec Lead Member is responsible for developing the Reference Implementation and Technology
433 Compatibility Kit and for licensing them as described in the JSPA. The Spec Lead Member must
434 provide the EC with complete copies of the proposed Specification, RI and TCK licenses no later than
435 the start of JSR Review. The licenses shall be published on the public JSR page. EC members
436 should provide feedback on the terms as an indication of how the community as a whole might react to
437 the terms. If the EC Members believe that the proposed licensing terms are not compatible with the
438 licensing guidelines established for use within the JCP, then balloting on the proposed JSR shall be
439 delayed until Oracle legal provides an opinion on the matter. The opinion of Oracle legal shall be the
440 final decision on the matter.

441 **2.3 JSR APPROVAL BALLOT**

442 After the JSR Review, EC members shall review the JSR and any comments received, and cast their
443 ballot to decide if the JSR should be approved.

444 If the JSR Approval Ballot fails, the PMO shall send all EC comments to the JSR submitter(s) who may
445 revise the JSR and resubmit it within 14 days. If a revised JSR is not received in that time, the original
446 EC decision shall stand and the JSR shall be closed. If a revised JSR is received, the PMO shall post
447 it to the JSR Page, announce the revised JSR to the public, and send it to all EC members for a JSR
448 Reconsideration Ballot. If that ballot fails, the JSR shall be closed.

449 **2.4 FORM THE EXPERT GROUP**

450 When a JSR is approved the PMO instructs the identified Spec Lead to form the Expert Group. If the
451 Member contributing the Spec Lead withdraws from the Community before the JSR is approved, the
452 PMO shall request the preliminary Expert Group to choose a replacement from among themselves
453 who is willing to take on the duties defined in this document.

454 **3. DRAFT RELEASES**

455 **3.1 WRITE THE FIRST DRAFT OF THE SPECIFICATION**

456 The Expert Group should begin work by considering the requirements set forth in the JSR, any
457 contributed documents or technology descriptions, comments received during JSR Review and, if this
458 is a revision of an existing Specification, the Issue List kept by the Maintenance Lead (see section 5).
459 Additional input can be obtained from discussions with other Members, industry groups, software
460 developers, end-users, and academics. The goal is to define requirements and then write a draft
461 Specification suitable for review by the community and the public.

462 When the Expert Group decides that the first draft is ready for review, the Spec Lead shall send the
463 draft, along with any additional files required for review, to the PMO. The Spec Lead should also
464 suggest the length of the Early Draft Review period if the Expert Group feels it should go beyond the
465 minimum 30 days.

466 Multiple Early Drafts (and Early Draft Reviews) are encouraged where the Expert Group feels that this
467 would be helpful.

468 **3.2 EARLY DRAFT REVIEW**

469 Refinement of the draft Specification begins when the PMO posts it to the JCP Web Site and
470 announces the start of Early Draft Review. Anyone can download and comment on the draft. The goal
471 of Early Draft Review is to get the draft Specification into a form suitable for Public Review as quickly
472 as possible by uncovering and correcting major problems with the draft. Early Draft Review is an early
473 access review, and should ideally take place when the Specification still has some unresolved issues.
474 The public's participation in Early Draft Review is an important part of the JCP. In the past, comments
475 from the public have raised fundamental architectural and technological issues that have considerably
476 improved some Specifications.

477 **3.2.1 UPDATING THE DRAFT DURING EARLY DRAFT REVIEW**

478 If the Expert Group makes major revisions to the draft during Early Draft Review, the Spec Lead
479 should send the revised draft, along with a synopsis of the changes, to the PMO, which shall publish
480 these online and make them available for download by the public.

481 After the Early Draft Review period has ended, the Expert Group can make any additional changes to
482 the draft it deems necessary in response to comments before submitting the draft to the PMO for the
483 next review.

484 **3.3 PUBLIC REVIEW**

485 Public Review begins when the PMO posts a new draft Specification on the JCP Web Site and
486 announces its availability for public review and comment.

487 The Spec Lead is responsible for ensuring that all comments are read and considered. If those
488 comments result in revisions to the draft, and those revisions result in major changes (in the opinion of
489 the Expert Group), then the Spec Lead must send an updated draft (with a summary of the changes)
490 to the PMO before the review period ends. The PMO shall post the new draft and the change
491 summary on the JCP Web Site and shall notify the public that the new draft is available.

492 **3.4 PUBLIC DRAFT SPECIFICATION APPROVAL BALLOT**

493 The Public Draft Specification Approval Ballot starts when the Public Review closes. At the close of
494 balloting, all comments submitted by EC members with their ballots shall be circulated to the Expert
495 Group by the PMO.

496 If the Public Draft Specification Ballot fails, the Expert Group will have 30 days to update the draft in
497 response to the concerns raised by the EC and to submit a revised version to the PMO. If a revised
498 draft is not received within 30 days, the original decision by the EC shall stand and the JSR shall be
499 closed. If a revision is received, the PMO shall forward it to the EC and initiate a Public Draft
500 Specification Reconsideration Ballot. At the close of balloting, all comments submitted by EC members
501 with their ballots shall be circulated to the Expert Group by the PMO. If this ballot fails, the JSR shall
502 be closed and the Expert Group shall disband. If the JSR was a revision to an existing Specification,
503 the Spec Lead shall resume the role of Maintenance Lead of the current Specification (see section 5).

504 **4. FINAL RELEASE**

505 **4.1 PROPOSED FINAL DRAFT**

506 If the Public Draft Specification Approval Ballot (or Reconsideration Ballot) is successful, the Expert
507 Group shall prepare the Proposed Final Draft of the Specification by completing any revisions it deems
508 necessary in response to comments received. The Spec Lead shall then send the Proposed Final
509 Draft to the PMO, which shall post it on the JCP Web Site for public download.

510 **4.1.1 COMPLETE THE RI AND TCK**

511 The Spec Lead Member is responsible for the completion of both the RI and the TCK. JSRs that are
512 assigned to both ECs are required to support both environments, which may require a separate RI and
513 TCK for each environment. If the RI and TCK uncover areas of the Specification that were under-
514 defined, incomplete, or ambiguous, the Spec Lead shall work with the Expert Group to correct those
515 deficiencies and then send a revised Specification together with a summary of the changes to the
516 PMO. Information shall be posted to the JCP Web Site. The Expert Group shall continue to consider
517 any further comments received during this time.

518 **4.1.2 ESTABLISH A FIRST-LEVEL TCK APPEALS PROCESS**

519 The Spec Lead is also responsible for establishing a clearly defined First Level TCK Appeals Process
520 to address challenges to tests contained in the TCK. This process must be described in the TCK

documentation. Implementors who are not satisfied with a first level decision should appeal to the EC by documenting their concerns in an email message to the PMO. The PMO will circulate the request to the EC, together with any information received from the ML concerning the rationale for the first-level decision, and initiate a 7-day Appeal Ballot.

4.1.3 UPDATE THE DELIVERABLES IN RESPONSE TO THE APPEAL BALLOT

Depending on the nature of the problem, a successful TCK challenge will require updating one or more of the TCK, the Specification, or the RI. Within 30 days of the close of a successful TCK Appeal Ballot the Maintenance Lead must update these deliverables as necessary and report the changes to the PMO when the Specification (if changed) and URLs for the updated RI and/or TCK are delivered for publication on the JCP website.

4.2 FINAL APPROVAL BALLOT

When the Expert Group is satisfied that the TCK provides adequate test coverage, the RI correctly implements the Specification, and the RI passes the TCK, the Spec Lead shall send the Final Draft of the Specification to the PMO together with instructions on how EC members can obtain the RI and TCK for evaluation. The PMO shall circulate the materials to the EC and initiate the Final Approval Ballot. At the close of balloting, all EC comments shall be sent to the Expert Group by the PMO.

The TCK submitted as part of the Final Draft must meet the following requirements:

- Include documentation covering configuration and execution of the TCK, any other information needed to use the TCK (e.g. documentation for any supplied tools,) a definition and explanation of the First-level TCK Appeals Process, and the compatibility requirements that must be met in addition to passing the TCK tests
 - The compatibility requirements at a minimum must specify that all compatible implementations
 - a) fully implement the Spec(s) including all required interfaces and functionality, and
 - b) do not modify, subset, superset, or otherwise extend the Licensor Name Space, or include any public or protected packages, classes, Java interfaces, fields or methods within the Licensor Name Space other than those required/authorized by the Spec or Specs being implemented.
- These requirements must apply unless the Spec or TCK explicitly allows exceptions.
- Be accompanied by a test harness, scripts or other means to automate the test execution and recording of results.
 - Include a TCK coverage document that will help EC members to evaluate the TCK's quality. This document should include an overview of the documentation included in the TCK, a description of means used to validate the quality of the TCK, the criteria used to measure TCK test coverage of the Specification, test coverage numbers achieved, and a justification for the adequacy of TCK quality and its test coverage.
 - Provide 100% signature test coverage. These tests must ensure that all of the API signatures required by the spec are completely implemented and that only API signatures required by the spec are included in the JSR's namespace.

If the Final Approval Ballot fails, the Spec Lead will have 30 days to revise the Specification, RI, and TCK in response to EC concerns and to resubmit modified materials to the PMO.

If no responses are received within 30 days the original decision of the EC shall stand, the PMO shall close the JSR, and the Expert Group shall disband. If the JSR was a revision to an existing Specification, the Spec Lead shall resume the role of Maintenance Lead of the current Specification

564 (see section 5).

565 If a response is received, the PMO shall circulate it to all EC members for a Final Approval
566 Reconsideration Ballot. At the close of balloting, all ballot comments submitted by EC members shall
567 be circulated to the Expert Group by the PMO. If the reconsideration ballot fails, the JSR will be closed
568 and the Expert Group will disband. If the JSR was a revision to an existing Specification, the Spec
569 Lead will resume the role of Maintenance Lead of the current Specification.

570 **4.3 FINAL RELEASE**

571 Within 14 days of a successful Final Approval Ballot or Reconsideration Ballot, the PMO will publish on
572 the JCP website the Specification and links to information on how to obtain the RI and TCK and will
573 announce the availability of these materials to both Members and the public. The published TCK
574 information must include a means for any interested party to obtain a copy of the TCK documentation
575 at no charge. Upon Final Release, the Expert Group will have completed its work and disbands. The
576 Spec Lead will typically be the Maintenance Lead and may call upon Expert Group members and
577 others for aid in that role.

578 The Maintenance Lead must ensure that the links to the RI and TCK remain valid. If the links become
579 broken or non-functional, the Maintenance Lead will have 30 days following notification from the PMO
580 to correct them. If the problems are not corrected within 30 days the PMO will initiate a JSR
581 Withdrawal Ballot (if no Maintenance Release has been completed) or a Maintenance Release
582 Withdrawal Ballot (if a Maintenance Release has been made) to determine whether the Maintenance
583 Lead shall be judged to have abandoned the JSR. If the ballot passes the JSR itself or the relevant
584 Maintenance Release will be marked as *withdrawn*.

585 **5. MAINTENANCE**

586 **5.1 MAINTENANCE LEAD RESPONSIBILITIES**

587 The Maintenance Lead Member is expected to assume long term ownership of the Specification, RI,
588 and TCK while respecting the wishes of the Java Community Members with regard to evolution. A
589 Maintenance Lead shall therefore automatically be the Spec Lead for all significant future revisions to
590 their Specification but shall not have the exclusive right to decide when a significant revision will take
591 place (see section 2.1.1).

592 The public may submit requests for clarification, interpretation, and enhancements to the Specification
593 by logging issues through the JSR's Issue Tracker.

594 The ML shall consider all requests and shall decide how and if the Specification should be updated in
595 response. The ML is not required to do all these tasks alone, but is free to consult with the former
596 members of the Expert Group, or any other sources, to assist with the Maintenance duties.

597 All changes proposed by the ML shall make their way into the Specification by either the Maintenance
598 Release process (described below) or through a new JSR. Changes appropriate for a Maintenance
599 Release include bug-fixes, clarifications of the Specification, changes to the implementation of existing
600 APIs, and implementation-specific enhancements. Changes introduced in Maintenance Releases – for
601 example, modifications to existing APIs or the addition of new APIs - must not break binary
602 compatibility as defined by the Java Language Specification, and should be deferred to a new JSR.

603 **5.1.1 RELINQUISHING OWNERSHIP**

604 If the ML decides to discontinue his or her work at any time (including discontinuing maintenance
605 activities or declining to take on the role of Spec Lead during a significant revision initiated by a JSR)
606 the ML, with the assistance of the PMO, should make a reasonable effort to locate another Member

607 who is willing to take on the task. If a replacement is identified, the PMO must initiate a Transfer Ballot
608 within 30 days to enable EC members to approve the transfer of responsibilities. If the ballot
609 succeeds, the new ML must assume his or her responsibilities within 30 days. If no replacement can
610 be found, or if the Transfer Ballot fails, then the PMO shall declare the Specification to be Dormant
611 and no further maintenance can be carried out. No further Transfer Ballots will be initiated by the PMO
612 unless a Member volunteers as ML, in which case the PMO will again have 30 days to initiate a
613 Transfer Ballot.

614 **5.2 MAINTENANCE REVIEW**

615 The Maintenance Lead shall document all proposed Specification changes through the Issue Tracker
616 and then send a request to the PMO to initiate a Maintenance Review. This request must be
617 accompanied by an Issue List that summarizes all formal comments that have been received and that
618 indicates the disposition of each Issue. The Maintenance Lead must also supply a summary of the
619 proposed Specification changes, ideally in the form of a *diff* between the proposed and the current
620 Specification. The Maintenance Lead must also provide an estimate of when the final materials shall
621 be delivered for the Maintenance Release. If no estimate is provided the deadline will default to 30
622 days.

623 The PMO shall post the materials on the JCP website for public review. The Maintenance Lead may
624 choose to modify one or more of the proposed changes based on comments received during the
625 review.

626 At the close of the Maintenance Review the PMO shall initiate a 7-day Maintenance Review Ballot.
627 During this ballot EC members should vote 'yes' if they agree that the Maintenance Release should
628 proceed as the Spec Lead has proposed, and 'no' if they have objections to the proposed release on
629 one of the following grounds:

- 630 • One or more of the changes proposed by the Maintenance Lead is inappropriate for a
631 Maintenance Release and should be deferred to a follow-on JSR
- 632 • An issue that was referenced in a "conditional yes" vote during an earlier development stage
633 has not been addressed.
- 634 • The proposed Maintenance Release date is too far in the future. (EC members should bear in
635 mind that many Maintenance Releases need to be synchronized with updates to a Platform,
636 and that a Maintenance Review may therefore need to be carried out significantly in advance
637 of the proposed Platform release.)
- 638 • Unreasonable changes have been made to the RI or TCK licensing terms.

639 'No' votes on other grounds shall be rejected by the PMO and shall be considered as abstentions. All
640 'no' votes must be accompanied by comments explaining the reason for the vote.

641 If the ballot fails, the Maintenance Lead may make any necessary corrections before requesting
642 another Maintenance Review and ballot. The process may be repeated any number of times.

643 **5.3 MAINTENANCE RELEASE**

644 After a successful Maintenance Review Ballot the Maintenance Lead will update the Specification, RI,
645 TCK, and Issue List as necessary and submit them to the PMO for publication in a Maintenance
646 Release. The PMO verifies that the necessary changes have been made, and publishes the
647 Specification, the Issue List, and pointers to the RI and TCK on the JSR Web Page.

648 NOTE: until the Maintenance Release stage is reached any proposed changes should be considered
649 preliminary and subject to change, and therefore should not be implemented in shipping products.

650 If the Maintenance Lead fails to deliver the final materials within the time-period specified at the
651 beginning of the Maintenance Review process the PMO will inform the Maintenance Lead of an

652 impending Maintenance Renewal Ballot, and will request the Maintenance Lead to prepare a public
653 statement to the EC that explains the reason for the delay and provides a new deadline. 30 days after
654 this request the PMO will initiate a Maintenance Renewal Ballot to determine whether the deadline
655 may be extended as requested or whether the previous Maintenance Review should be rescinded and
656 the Maintenance Lead be required to go through another Maintenance Review.

657 **6. EXECUTIVE COMMITTEE POLICIES AND PROCEDURES**

658 **6.1 SCOPE**

659 The Executive Committee (EC) oversees the development and evolution of the Java technologies
660 within the JCP.

661 **6.2 MEMBERSHIP**

662 There are currently two Executive Committees: one responsible for Java ME and one for Java SE and
663 EE together. Each EC is composed of 16 Java Community Process Members. Oracle America, Inc.
664 has a permanent voting seat on each EC. (Oracle representatives must not be members of the PMO.)
665 The ECs are led by a non-voting Chair from the Program Management Office.

666 Should one Member on the EC acquire a majority ownership of another EC member, one of those
667 members must resign his or her seat by the effective date of the acquisition.

668 NOTE: In the near future the EC intends to merge the two ECs, and modify the number of members
669 and possibly their terms of office.

670 **6.3 EC DUTIES AND RESPONSIBILITIES**

- 671 1. Select JSRs for development within the JCP.
- 672 2. Review and provide guidance on proposed licensing terms of proposed JSRs.
- 673 3. Approve draft Specifications after Public Review.
- 674 4. Ensure that publicly expressed issues/concerns with a JSR are addressed by the Expert
675 Group.
- 676 5. Give final approval to completed Specifications and their associated RIs and TCKs.
- 677 6. Decide appeals of first-level TCK test challenges.
- 678 7. Review proposed maintenance revisions and possibly require some to be carried out in a new
679 JSR.
- 680 8. Approve the transfer of maintenance duties between Members.
- 681 9. Decide when JSRs that have not made sufficient progress through the Process should be
682 withdrawn.
- 683 10. Provide guidance to the PMO and JCP Community to promote the efficient operations of the
684 organization and to guide the evolution of Java platforms and technologies. Such guidance
685 may be provided by mechanisms such as publishing white papers, reports, or comments as the
686 EC deems appropriate to express the opinions of one or both Executive Committees.
- 687 11. Members of the Executive Committee shall be dedicated to the principles of full and open
688 competition, in full compliance with all applicable laws, including all antitrust laws of the United
689 States and other nations and governmental bodies as appropriate. Violations of such laws can
690 result in criminal as well as civil penalties for individuals as well as employers, depending on
691 the jurisdiction. In particular, any discussion related to product pricing, methods or channels of
692 distribution, division of markets or allocation of customers, among other subjects, should be
693 avoided.

694 **6.4 EC SELECTION PROCESS AND LENGTH OF TERM**

695 EC members serve three-year terms, which are staggered so that a third of the seats are up for
696 election each year.

697 On each EC there are two Ratified Seats for every Elected Seat (currently 10 Ratified Seats and 5
698 Elected Seats) plus one permanent seat held by Oracle America, Inc.

699 **6.4.1 RESIGNATION OF EC SEATS**

700 EC Members may resign their seats at any time during their term.

701 EC members who fail to remain Java Community Members forfeit their EC seat.

702 Vacated seats are normally filled for the remainder of their term by a special election ballot that will be
703 held no later than two months after the resignation (unless the resignation is less than six months
704 before the next scheduled annual election ballot). However, EC members may choose not to fill a
705 vacated seat in order to facilitate a reduction in the size of the ECs in anticipation of a future merge
706 into a single EC.

707 **6.4.2 ELECTION PROCESSES**

708 All JCP Members are eligible to vote in ballots for Ratified and Elected Seats subject to the provision
709 that if a Member has majority-ownership of one or more other Members, or if one or more Members
710 are Agents of another Member, then that group of Members shall collectively have one vote, which
711 shall be cast by the person they designate to be their representative for the ballot in question.

712 Annual elections for Ratified and Elected Seats shall be held simultaneously. Voting in these elections
713 will start in the third week of October.

714 In the interests of promoting transparency and participation in the election process the PMO shall
715 organize teleconferences at which the Members have an opportunity to hear from and to ask
716 questions of the candidates. If a suitable venue such as JavaOne is available the PMO shall also
717 organize a public meeting with the same purpose.

718 **6.4.3 SELECTION PROCESS FOR RATIFIED SEATS**

719 Members are selected for the Ratified Seats using a ratification ballot which is carried out as follows:

- 720 • The PMO nominates Members to fill the vacant Ratified Seats with due regard for balanced
721 community and regional representation.
- 722 • At its discretion the PMO may choose not to nominate any candidate for a ratified seat, in order
723 to facilitate a reduction in the size of the ECs in anticipation of a future merge into a single EC.
- 724 • Eligible Members will vote to ratify each nominee over a 14-day ballot period.
- 725 • A nominee is ratified by a simple majority of those who cast a vote.
- 726 • If one or more of the nominees are not ratified by the vote, the PMO shall nominate additional
727 Members as needed and hold additional ratification ballots until the vacant seats are filled.

728 **6.4.4 SELECTION PROCESS FOR ELECTED SEATS**

729 Members are selected for the Elected Seats using an open election process that is carried out as
730 follows:

- 731 • Four weeks before the voting period the PMO shall post on the public JCP site a complete
732 description of all materials that will be provided to voters (e.g. any candidate statements,
733 position papers, candidate forums, etc. that will be posted during the election).
- 734 • Four weeks before the ballot period the PMO shall accept nominations from the Community for

a period of 14 days. Any Member may nominate themselves except that Agents of JCP Members cannot run for Elected Seats as individuals and the PMO shall reject such nominations.

- Eligible Members may vote for as many nominees as there are vacant Elected Seats over a 14-day ballot period.
- The nominees who receive the most votes shall fill the vacant Elected Seats.
- If there is only one nominee for an Elected Seat voters shall be given the opportunity to vote "yes" or "no" for that candidate. To be elected, the candidate must obtain a simple majority.
- If there is no candidate for an elected seat, the ECs may choose to hold this seat open until the next election.
- Ties shall be decided by following the procedure defined in <http://www.ietf.org/rfc/rfc2777.txt> and using the calculator provided by W3C in <http://www.w3.org/2001/05/rfc2777>.

7. EXECUTIVE COMMITTEE JSR VOTING RULES

1. All JSR ballots shall be conducted electronically and the results made public.
2. JSR balloting periods last 14 days except where noted in this document.
3. EC Members may cast three types of votes: "yes", "no" and "abstain". Explicit abstentions are strongly discouraged. In the extreme and most undesirable case, an EC Member may not vote at all.
4. Any vote may be accompanied by comments. When comments include specific suggestions for change these should be logged in the Issue Tracker to ensure that they are addressed. "No" votes must be accompanied by references to the Issue Tracker items (if any) that if resolved would persuade the member to change the vote to "yes".
5. Only "yes" and "no" votes count in determining the result of a JSR ballot.
6. JSR ballots are approved if (a) a majority of the votes cast are "yes" votes, and (b) a minimum of 5 "yes" votes are cast. Ballots are otherwise rejected.
7. Ballots to approve UJSRs that define the initial version of a new Platform Edition Specification or JSRs that propose changes to the Java language are approved if (a) at least a two-thirds majority of the votes cast are "yes" votes, (b) a minimum of 5 "yes" votes are cast, and (c) Oracle casts one of the "yes" votes. Ballots are otherwise rejected.
8. It is highly recommended that abstentions be accompanied by comments.
9. When a failed JSR ballot results in the closing of a JSR, at least 30 days must pass before the JSR can be reinitiated.
10. EC ballots to override a first-level decision on a TCK challenge are approved if (a) at least a two-thirds majority of the votes cast are "yes" votes, and (b) a minimum of 5 "yes" votes are cast.
11. When more than one EC is voting on any JSR ballot, the ballot shall be approved only if each EC approves it separately.

IV APPENDIX A: REVISING THE JCP AND THE JSPA

Revisions to the Java Community Process (this document) and the Java Specification Participation Agreement shall be carried out using the Java Community Process with the following changes:

1. Only EC members can initiate a JSR to revise one of these documents.
2. Each EC must approve the JSR.
3. The Expert Group consists of both ECs with a member of the PMO as Spec Lead.
4. There is no Reference Implementation or Technology Compatibility Kit to be delivered and no TCK appeals process to be defined.