

# JCP Process Document

Version 2.10 (Month dd, 2014) Early Draft Review – July 15 2014

Comments to: [pmo@jcp.org](mailto:pmo@jcp.org)  
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## 62 1. EXECUTIVE SUMMARY

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

68 Experience has shown that the best way to produce a technology specification is to gather a group of  
69 industry experts who have a deep understanding of the technology in question, and for a strong tech-  
70 nical lead to work with that group to create a first draft. Agreement on the form and content of the draft  
71 is then built using an iterative process that allows an ever-widening audience to review and comment  
72 on the document.

73 An Executive Committee (EC) representing a cross-section of both major stakeholders and other  
74 members of the Java community is responsible for approving the passage of Specifications through  
75 the JCP's various stages and for reconciling discrepancies between Specifications and their associat-  
76 ed test suites.

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

- 78 1. **INITIATION:** A Specification targeted at the desktop/server or consumer/embedded space is initiat-  
79 ed by one or more Members and approved for development by the responsible EC. A group of ex-  
80 perts is formed to assist the Spec Lead with the development of the Specification.
- 81 2. **DRAFT RELEASES:** The Expert Group develops the Specification through an iterative process,  
82 releasing drafts for public review and comment. After the formal Public Review the EC holds a bal-  
83 lot on whether the JSR should proceed to the Final Release stage.
- 84 3. **FINAL RELEASE:** The Spec Lead submits the Specification to the PMO for publication as the Pro-  
85 posed Final Draft. When the RI and TCK are completed, and the RI passes the TCK, the Specifica-  
86 tion, the RI, and the TCK are submitted to the PMO, which circulates them to the responsible EC  
87 for final approval.
- 88 4. **MAINTENANCE:** The Specification, Reference Implementation, and Technology Compatibility Kit  
89 are updated in response to ongoing requests for clarification, interpretation, enhancements, and re-  
90 visions. The EC reviews proposed changes to the Specification and indicates which can be carried  
91 out immediately and which should be deferred to a new JSR.

92 This version (2.10) of the JCP was developed using the Java Community Process itself by means of  
93 JSR 364, which was led by Oracle with all Executive Committee members forming the Expert Group.

94

## 95 2. DEFINITIONS

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

97 **Affiliate Member:** An individual who is unwilling or unable to sign the JSPA but who instead  
98 signs an Affiliate Membership Agreement in order to participate in the activities of the JCP.

99 **Affiliate Membership Agreement:** The membership agreement signed by individuals who are  
100 unwilling or unable to sign the JSPA.

101 **Ballot:** See Appeal Ballot, Final Approval Ballot, Final Approval Reconsideration Ballot, JSR Ap-  
102 proval Ballot, JSR Reconsideration Ballot, JSR Renewal Ballot, JSR Renewal Reconsideration  
103 Ballot, JSR Withdrawal Ballot, Maintenance Review Ballot, Maintenance Renewal Ballot,

104 Maintenance Release Withdrawal Ballot, Public Draft Specification Approval Ballot, Public Draft  
105 Specification Reconsideration Ballot, Transfer Ballot.

106 **Community Seat:** An Executive Committee seat filled by the election process described in sec-  
107 tion 3.7.6.

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

110 **Contributor:** A JCP Member who is not a member of an Expert Group but who at the Spec  
111 Lead's discretion is formally recognized as having contributed to the JSR.

112 **Dormant Specification (Dormant):** A Specification that the PMO has determined has no as-  
113 signed Specification Lead or Maintenance Lead, or that is not being actively developed and on  
114 which no further development is anticipated.

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

117 **Elected Seat:** An Executive Committee seat filled by the election process described in section  
118 3.7.6.

119 **Employer Contribution Agreement:** An agreement that must be signed by the employer of an  
120 individual Full Member in which the employer makes certain IP commitments with respect to the  
121 employee's participation in the JCP.

122 **Executive Committee (EC):** The Members who guide the evolution of the Java technologies.  
123 The EC represents a cross-section of both major stakeholders and other Members of the Java  
124 community. EC members are appointed in an annual election process. The EC Policies and Pro-  
125 cedures are specified in the EC Standing Rules, which is a separate document.

126 **Expert Group (EG):** The group of JCP Members who develop or make significant reviJC

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

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

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

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

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

137 **Full Member:** A corporation, organization, or individual that has signed the JSPA in order to ob-  
138 tain full membership rights within the JCP.

- 139 **Issue:** an explicit reference to an item defined in an Issue Tracker.
- 140 **Issue List:** A list of Issues generated from an Issue Tracker, identifying the disposition of each.
- 141 **Issue Tracker:** A mechanism to allow issues (problems, tasks, comments, or requests for  
142 change) to be recorded and tracked by priority, status, owner, or other criteria. The Issue Tracker  
143 should permit issues to be identified by states such as open, resolved, and closed and should  
144 support the assignment of resolution types such as deferred (postponed to a follow-on release,)   
145 fixed (implemented,) challenged (no satisfactory resolution,) and rejected (deemed inappropriate  
146 or out of scope.)
- 147 **Java Community Process (JCP):** The formal process described in this document for develop-  
148 ing or revising Java technology Specifications.
- 149 **Java Community Process Member (Member):** A company, organization, or individual that has  
150 signed a Membership Agreement and is abiding by its terms.
- 151 **Java Specification (Specification):** A written specification for some aspect of the Java technol-  
152 ogy. This includes the language, virtual machine, Platform Editions, Profiles, and application  
153 programming interfaces.
- 154 **Java Specification Request (JSR):** The document submitted to the PMO by one or more  
155 Members to propose the development of a new Specification or a significant revision to an exist-  
156 ing Specification.
- 157 **Java Specification Participation Agreement (JSPA):** A one-year renewable agreement be-  
158 tween Oracle America and a company, organization or individual that allows the latter entities to  
159 participate in the Java Community Process as a Full Member.
- 160 **JCP Website:** The website where the public can stay informed about JCP activities, download  
161 draft and final Specifications, and follow the progress of Specifications through the JCP.
- 162 **JSR Approval Ballot:** A two-week EC ballot to determine if the initial JSR submission should be  
163 approved
- 164 **JSR Reconsideration Ballot:** The EC ballot to determine if a revision of an initial JSR submis-  
165 sion should be approved.
- 166 **JSR Page:** The web page on the JCP Website where the JSR's history is recorded and where  
167 other relevant information about the JSR is published.
- 168 **JSR Renewal Ballot:** An EC ballot to confirm that a JSR should continue in its work.
- 169 **JSR Renewal Reconsideration Ballot:** An EC ballot to determine if a revised JSR should con-  
170 tinue its work.
- 171 **JSR Review:** A two- to four-week period (the length to be set at the discretion of the submitter)  
172 during which the public can review and comment on a proposed new JSR before the JSR Ap-  
173 proval Ballot.

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

176 **Licensor Name Space:** The public class or interface declarations whose names begin with "ja-  
177 va", "javax", "com.sun" (or "com.Your name" if You are the Specification Lead) or their equiva-  
178 lents in any subsequent naming convention adopted by Oracle.

179 **Maintenance Lead (ML):** The JCP Member responsible for maintaining the Specification.

180 **Maintenance Lead Member:** The individual JCP member who is a Maintenance Lead, or the  
181 company or organization that is represented by the Maintenance Lead.

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

184 **Maintenance Review:** A period 14 or 30 days prior to finalization of a Maintenance Release  
185 when Members and the public consider and comment on the change the Maintenance Lead  
186 proposes to include in the release, as identified in the associated Issue List.

187 **Maintenance Review Ballot:** An EC ballot to determine whether the changes and time line pro-  
188 posed by a Maintenance Lead are appropriate for a Maintenance Release.

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

193 **Maintenance Release Withdrawal Ballot:** An EC ballot to confirm that a completed Mainte-  
194 nance Release that appears to have been abandoned should be withdrawn.

195 **Member:** See Affiliate Member, Full Member, Java Community Process Member, Member Rep-  
196 resentative, Partner Member.

197 **Member Representative:** An individual who is an employee of or who has a contractual rela-  
198 tionship with a Full Member and who is authorized by that Member to represent its interests with-  
199 in the JCP.

200 **Membership Agreement:** See Affiliate Membership Agreement, JSPA, Partner Membership  
201 Agreement.

202 **Observer:** An individual who is not a member of the JCP but who takes advantage of the JCP's  
203 transparency mechanisms to observe and/or comment on Expert Group activities.

204 **Partner Member:** A non-profit organization that is unwilling or unable to sign the JSPA (since it  
205 is not a legal entity) and that instead signs a Partner Membership Agreement in order to enable it  
206 enable it to promote and to participate in the activities of the JCP.

207 **Partner Membership Agreement:** The membership agreement signed by non-profit organiza-  
208 tions that are unwilling or unable to sign the JSPA.

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

212 **Profile Specification (Profile):** A Specification that references one of the Platform Edition Spec-  
213 ifications and zero or more other JCP Specifications (that are not already a part of a Platform  
214 Edition Specification.) APIs from the referenced Platform Edition must be included according to  
215 the referencing rules set out in that Platform Edition Specification. Other referenced Specifica-  
216 tions must be referenced in their entirety.

217 **Program Management Office (PMO):** The group within Oracle that is responsible for adminis-  
218 tering the JCP and chairing the EC.

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

221 **Public Draft Specification Approval Ballot :** The EC ballot to determine if a draft should pro-  
222 ceed after Public Review.

223 **Public Draft Specification Reconsideration Ballot :** The EC ballot to determine if a revised  
224 draft should proceed after Public Review.

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

227 **Ratified Seat:** An Executive Committee seat filled by the ratification process described in sec-  
228 tion 3.7.5.

229 **Reference Implementation (RI):** The prototype or "proof of concept" implementation of a Speci-  
230 fication.

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

232 **Specification:** See Java Specification.

233 **Specification Lead (Spec Lead):** The Member Representative or individual JCP Member who  
234 leads an Expert Group and who is responsible for its deliverables as defined in this Process  
235 Document.

236 **Technology Compatibility Kit (TCK):** The suite of tests, tools, and documentation that is used  
237 to determine if and implementation of a JSR complies with the Specification.

238 **Transfer Ballot:** The EC ballot to approve transfer of ownership of a Specification, RI, and TCK  
239 from one Member to another Member.<sup>1</sup>

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

---

<sup>1</sup>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.

242 The words “must”, “must not”, “required”, “shall”, “shall not”, “should”, “should not”, “**recom-**  
243 **mended**”, “**may**” and “**optional**” are used in this document in accordance with the IETF’s  
244 [RFC 2119](#).

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

## 247 **3. THE JAVA COMMUNITY PROCESS PROGRAM**

248

### 249 **3.1 JCP membership**

250 In order to enable the broadest possible participation in the work of the JCP several different roles and  
251 membership levels have been defined.

#### 252 **3.1.1 Observer**

253 Individuals need not sign a formal JCP Membership Agreement in order to observe and comment on  
254 Expert Group activities, since they may take advantage of the JCP’s transparency mechanisms such  
255 as public mailing lists and Issue Trackers. (Typically, however, Observers will need to register at  
256 [jcp.org](#) and possibly also at [java.net](#).) Observers are not eligible to join Expert Groups, to run for elec-  
257 tion to the the Executive Committee, or to vote in the JCP’s annual elections.

#### 258 **3.1.2 Partner Member**

259 Non-profit organizations such as Java User Groups that are unwilling or unable (because they are not  
260 legal entities) to sign the JSPA may sign a simplified Partner Membership Agreement that focuses on  
261 the promotion of JCP activities in collaboration with JCP Members and the PMO.

262 Partner Members cannot act as a Spec Lead or serve on most Expert Groups, but they are eligible to  
263 run for election to the Executive Committee. If elected, in their role as Executive Committee members  
264 they may serve as members of the Expert Group for JSRs whose focus is redefining the JCP’s organi-  
265 zation and “constitution” through the process described in Appendix A. Partner Members have the  
266 same voting rights as Full Members.

#### 267 **3.1.3 Affiliate Member**

268 An individual who is unwilling or unable to sign the JSPA may sign an Affiliate Membership Agreement  
269 in order to participate in the activities of the JCP. (Organizations are ineligible for this class of mem-  
270 bership.) The Affiliate Membership Agreement is simpler than the JSPA, and involves only a personal  
271 IP commitment. No employer signature is required.

272 Affiliate Members cannot act as a Spec Lead, join an Expert Group, or run for election to the Executive  
273 Committee. They are eligible to vote for Community Executive Committee seats but are not not eligible  
274 to vote for Ratified or Elected Seats. At the Spec Lead’s discretion Affiliate members can be formally  
275 recognized by being listed as Contributors to a JSR.

#### 276 **3.1.4 Full Member**

277 This class of membership is open to corporations, non-profit organizations that are legal entities, self-  
278 employed and unemployed individuals, students, and some employed individuals. The JSPA is the  
279 membership agreement for Full Members.

280 Non-employed individuals and university staff are eligible for Full Membership if they are legally able  
281 to license their own IP and can therefore sign the JSPA on their own behalf.

282 Employed individuals are eligible for Full Membership if their employer is willing to sign an Employer  
283 Contribution Agreement (no Employer Contribution Agreement is required from university staff). Such



284 individuals should register with their employee email address rather than with a personal email ad-  
285 dress in order to enable the PMO to track changes in employment status. They should also agree to  
286 inform the PMO when they change employers.

287 Full members may act as a Spec Lead, join an Expert Group, and run for election to any class of seat  
288 on the EC. Full members may vote for Nominated and Elected Seats on the EC but not for Community  
289 Seats.

### 290 **3.1.5 Member Representative**

291 Employees and other individuals who have a contractual relationship with Full Members may be au-  
292 thorized by the Full Member to represent its interests within the JCP by acting as a Spec Lead, serving  
293 on an Expert Group, or running for the EC. These Members should register with their employee email  
294 address rather than with a personal email address in order to enable the PMO to track changes in  
295 employment. They should also agree to inform the PMO when they change employers.

### 296 **3.1.6 Membership Fees**

297 In anticipation of changes proposed for the next version of the JSPA the PMO commits to waiving  
298 membership fees for commercial organizations as it currently does for non-profit organizations. Con-  
299 sequently, under JCP 2.10 there will be no fees for any class of membership.

## 300 **3.2 General procedures**

### 301 **3.2.1 Expert Group transparency and participation**

302 Each Expert Group is free to use the working style that it finds most productive and appropriate, so  
303 long as this is compatible with the requirements specified in this document. For example, an EG may  
304 choose to move forward only when there is general agreement among its members, or by voting on  
305 issues when there is disagreement.

306 As specified below, Expert Groups must operate in a transparent manner, enabling and encouraging  
307 Members and the public to observe their deliberations and to provide feedback. One useful way to en-  
308 courage broad participation is to encourage Members (particularly Affiliate Members) to become Con-  
309 tributors to the JSR. Partner Members such as Java User Groups may be helpful in identifying poten-  
310 tial Contributors.

311 The EG must take into consideration and publicly respond to all significant feedback. EGs must main-  
312 tain a publicly-accessible document archive from which all of their working materials such as source  
313 documents, meeting agendas, minutes, and draft documents can be accessed. The EC should take  
314 the Expert Group's transparency record into consideration when voting on its JSR.

315 In the initial JSR submission the Spec Lead must specify the transparency mechanisms (for example,  
316 the communication mechanisms and Issue Tracker) that the Expert Group intends to adopt, and must  
317 provide the URLs for accessing the chosen collaboration tools. The PMO shall publish this information  
318 on the JSR Page. The Spec Lead must also provide a pointer to any Terms of Use required to use the  
319 collaboration tools so that the EC and prospective EG members can judge whether they are compati-  
320 ble with the JSPA.

321 The PMO will publish this information on the JSR Page, and will require the EG to provide updated  
322 information on the actual progress of the JSR throughout its lifetime. This information will also be pub-  
323 lished.

324 When voting to approve a JSR's transition to the next stage EC members should take into considera-  
325 tion the extent to which the Spec Lead is meeting the JCP's transparency requirements.

#### 326 **3.2.1.1 Intellectual property considerations**

327 Spec Leads should be aware of their obligations to license the output of their JSR and to make certain  
328 patent grants on the terms defined in the JSPA. Incorporating feedback provided through public email

329 lists or forums without ensuring that the provider has signed a Membership Agreement or an equivalent Contribution Agreement may make it impossible to meet these requirements or may expose the  
330 Spec Lead to legal liability.  
331

### 332 **3.2.1.2 Confidentiality**

333 The use of *Confidential Information* (as defined in the JSPA) limits transparency, is strongly discour-  
334 aged, and will be prohibited in a future version of the Process. If the Spec Lead intends to permit the  
335 use of Confidential Information (such as emails, drafts, or submissions marked as *Confidential*) this  
336 must be specified in the initial Java Specification Request.<sup>2</sup>

### 337 **3.2.1.3 Public communications**

338 Expert Groups may choose to keep purely administrative matters private, but all substantive business  
339 must be performed in a manner that allows the public to observe their work and to respond to it. All  
340 proceedings, discussions, and working documents must be published, and a mechanism must be es-  
341 tablished to allow the public to provide feedback. One common way of meeting these requirements is  
342 through the use of mailing lists, but other alternatives such as blogs, Wikis, and discussion forums  
343 may be preferred. Whatever communication mechanisms are chosen, these must include an archiving  
344 function so that a record of all communications is preserved. Archives must be readable by the public.<sup>3</sup>

### 345 **3.2.1.4 Issue tracking**

346 Issues must be tracked through a publicly readable Issue Tracker. The Expert Group may choose to  
347 use a publicly writable Issue Tracker, thereby permitting the public to log issues directly, or alternative-  
348 ly to identify formal comments in some other manner and to enter them into the Issue Tracker on be-  
349 half of the submitter. Whatever mechanism is used, a publicly-readable audit trail of all comments and  
350 Issues must be maintained.

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

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

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

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

### 366 **3.2.1.5 Changes to licensing terms**

367 As described in Section 3.3.2.1 below, the proposed licensing terms must be disclosed during JSR  
368 submission. The Specification license must not be modified after initial submission since to do so  
369 could invalidate IP grants. It may be necessary, however, to modify the proposed RI or TCK license.

---

<sup>2</sup>The EC intends to remove the Confidentiality language from the next version of the JSPA.

<sup>3</sup>This should not be interpreted as a requirement that Expert Groups create or maintain audio or video recordings of their meetings.

370 Any such changes must be disclosed when the Specification is next submitted to the PMO for public  
371 posting or review.

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

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

## 384 **3.2.2 Expert Group membership**

### 385 **3.2.2.1 Expert group composition**

386 There is no size limit on the Expert Group. The Spec Lead may add additional members at any time  
387 so long as existing EG members are consulted. New members may be added, for example, to in-  
388 crease diversity of opinion.

389 Any JCP Member or Member Representative may request to join an Expert Group at any time by  
390 submitting their nomination via the online form provided on the JSR Page. Details of such requests,  
391 including the organizational affiliation of the requester, together with the Spec Lead's official response,  
392 substantive deliberations within the EG about the matter, and any other official decisions related to EG  
393 membership must be published through the EG's public communication channel.

394 Members and Affiliate Members who are not members of the Expert group may inform the Spec Lead  
395 at any time of their interest in contributing to the work of the Expert Group with the possibility of being  
396 formally recognized as Contributors.

397 The PMO will ensure that the JSR Page lists the Members who are members of the EG together with  
398 the names of individual Member Representatives where appropriate. At the Spec Lead's discretion  
399 Members who are Contributors to the work of the JSR will also be listed together with their Partner  
400 Member affiliation where appropriate.

### 401 **3.2.2.2 Withdrawal of a member from the Expert Group**

402 An EG member may withdraw from the Expert Group at any time. If the withdrawing member is the  
403 Spec Lead, the Expert Group, with the help of the PMO, should approach the Member who originally  
404 contributed the Spec Lead, if any, and request them to provide a suitable replacement; if no such re-  
405 placement is forthcoming, the Expert Group should choose one of its members as the new Spec Lead.  
406 If the withdrawing member is not the Spec Lead, the Spec Lead should approach the member's organ-  
407 ization (if any) to find a suitable replacement. If no replacement is offered or available the Spec Lead  
408 may recruit a replacement from amongst other Members.

### 409 **3.2.2.3 Disruptive, uncooperative or unresponsive Expert Group members**

410 There may be rare instances when members of the Expert Group feel that one of their fellow members  
411 is not acting in ways that advance the work of the Expert Group, and is being disruptive, uncoopera-  
412 tive or unresponsive. EG members are expected to make a reasonable effort to resolve any such is-  
413 sues among themselves, with the active help of the Spec Lead. However, if the situation cannot be  
414 resolved in a timely manner, any three members of the EG can approach the Spec Lead and request  
415 that the EG member in question be excluded from further participation in the EG. If the Spec Lead

416 agrees to the request he can then do so. In the case where the EG Member in question is a Member  
417 Representative, the Spec Lead must first request that the Member replace its representative. If the  
418 Member does not do so in a timely manner, the Spec Lead can exclude the Member itself from further  
419 EG participation. The Spec Lead's decision as to whether or not to exclude can be appealed to the EC  
420 by following the process outlined in Section 3.2.7, "Escalation and Appeals"

### 421 **3.2.2.4 Unresponsive or inactive Spec Lead**

422 There may be rare instances when members of the Expert Group feel that the Spec Lead is not acting  
423 in ways that advance the work of the Expert Group and is being unresponsive or inactive. The EG is  
424 expected to make a reasonable effort to resolve any such issues in a timely manner. However, if the  
425 situation cannot be resolved these concerns should be brought to the attention of the EC as quickly as  
426 possible so they may be proactively addressed and resolved.

427 If the problems cannot be resolved informally, any three members of the EG may request the EC to  
428 replace the Spec Lead. All such requests must clearly state the cause of the concern and provide all  
429 necessary evidence. If the EC agrees that there is cause, it may ask the PMO to replace the Spec  
430 Lead. If the Spec Lead is a Member Representative the PMO shall ask the Member to replace the  
431 Spec Lead. If the Member declines to do so the PMO shall seek an alternative Spec Lead, in which  
432 case the EC must conduct a Transfer Ballot as specified in section 3.6.2 of this document. If no Spec  
433 Lead replacement can be found, the EC shall initiate a JSR Renewal Ballot to determine whether the  
434 JSR should be shut down.

### 435 **3.2.3 JSR deadlines**

436 If a JSR does not begin Early Draft Review within 9 months of completing its JSR Approval Ballot, or  
437 does not begin Public Review within 12 months of first submitting an Early Draft, or does not reach  
438 Final Release within 12 months of commencing Public Review, then the EC shall initiate a JSR Re-  
439 newal Ballot. The PMO shall inform the Spec Lead and Expert Group of this decision and will request  
440 the Spec Lead and Expert Group to prepare a public statement to the EC. The JSR Renewal Ballot  
441 shall start 30 days after the request. If the JSR Renewal Ballot is approved by the EC, then another  
442 renewal ballot cannot be initiated for that JSR for an additional year.

443 The Spec Lead may also voluntarily request that the JSR be declared Dormant. Under these circum-  
444 stances a JSR Renewal Ballot must be held in order for the Expert Group to resume its activities at a  
445 future date.

446 If a JSR Renewal Ballot fails the Expert Group will have 30 days to update the JSR in response to the  
447 concerns raised by the EC, and may submit a revised version to the PMO. If a revised JSR is not re-  
448 ceived by the end of the 30 days, the original decision by the EC shall stand and the JSR shall be  
449 closed. If a revision is received, then the PMO shall forward it to the EC and initiate a JSR Renewal  
450 Reconsideration Ballot. At the close of balloting, all comments submitted by EC members, together  
451 with their ballots shall be circulated to the Expert Group by the PMO. If this ballot fails, the JSR shall  
452 be closed and the Expert Group shall disband.

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

### 455 **3.2.4 Compatibility testing**

456 The Spec Lead is responsible for defining the process whereby the TCK is used to certify implementa-  
457 tions of the JSR as compatible. The Maintenance Lead must submit to the PMO at least quarterly a list  
458 of all implementations that have been certified as compatible and that have been released publicly or  
459 commercially. The PMO will publish this information on the JCP Website. If the Spec Lead submits the  
460 information in the form of a pointer to an already published list the PMO may choose simply to refer-  
461 ence that list rather than duplicate it.

462

## 463 **3.2.5 Executive Committee duties**

### 464 **3.2.5.1 Transparency**

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

### 468 **3.2.5.2 Draft reviews**

469 During JSR reviews EC members are strongly encouraged to ensure that one or more technical mem-  
470 bers of their organizations review the draft and provide feedback to the Expert Group. EC feedback is  
471 particularly important to the Expert Group, and EC members are encouraged not to wait until ballot  
472 periods to raise concerns and issues.

### 473 **3.2.6 PMO response times**

474 Materials to be posted on the JCP Website for review, comment, or any other official EG or EC busi-  
475 ness should be submitted to the PMO, which shall post them on the JCP Website and announce their  
476 availability to Members and the public within seven days of receipt (holiday closures excepted.)

### 477 **3.2.7 Escalation and appeals**

478 Unless otherwise specified in this document, any EG member can appeal to the EC regarding a deci-  
479 sion, an action, or inaction by the PMO, a Spec Lead, or a Maintenance Lead that affects EG partici-  
480 pation or issue-resolution and which cannot be resolved by other reasonable means. An appeal must  
481 be initiated by sending an email message to the PMO (pmo@jcp.org) in all cases, even if it affects the  
482 PMO itself. The message must describe the issue under appeal clearly and concisely, with a short and  
483 relevant *subject* line, and must provide all relevant documentation to support the appeal. The PMO  
484 shall transmit the message to the EC no later than seven days after receipt. The EC shall then re-  
485 spond to the appellant within 30 days, either with a resolution or with a request for clarification and/or  
486 further documentation.

## 487 **3.3 Initiate a new or revised Specification**

### 488 **3.3.1 Initiate a Java specification request**

489 One or more Members may initiate a request to develop a new Specification, or carry out a significant  
490 revision to an existing one, by submitting a JSR proposal through the JCP Website, as described in  
491 the Spec Lead Guide. Upon request to the PMO any JSR proposal may be withdrawn by the submit-  
492 ter(s) without explanation prior to the completion of the JSR Approval Ballot.

493 The following information must be provided with each JSR:

- 494 • the Members making the request (the submitters,) the proposed Spec Lead, and the initial mem-  
495 bers of the Expert Group,
- 496 • a description of the proposed Specification,
- 497 • the reason(s) for developing or revising it,
- 498 • the primary Platform Edition, as well as any consideration given to other Platform Editions,
- 499 • an estimated development schedule,
- 500 • any preexisting documents, technology descriptions, or implementations that might be used as a  
501 starting point,
- 502 • a transparency plan, which outlines the tools and techniques that the Spec Lead will use during  
503 the development of the Specification to communicate with and seek feedback from JCP Mem-  
504 bers and the public.

505 At the PMO's discretion JSR submissions may be required to include a completed *JSR Review Pro-*  
506 *cess* questionnaire or presentation that provides information about the goals of the JSR and the pro-  
507 cesses that the Expert Group plans to use during its development.

### 508 **3.3.1.1 Revise existing Specifications**

509 Existing Specifications, together with their associated RIs and TCKs, are maintained by a designated  
510 Maintenance Lead using the processes described in section 3.6 of this document. Maintenance Lead  
511 Members are expected to assume long-term ownership of the Specification, RI, and TCK while re-  
512 specting the wishes of JCP Members with regard to evolution. Maintenance Leads shall therefore be  
513 the Spec Leads for all significant revisions to their Specifications, but they shall not have the exclusive  
514 right to decide when a significant revision will take place. That shall be decided by the EC in response  
515 to a revision JSR that can be initiated by any JCP Member. Submitter(s) should make a reasonable  
516 effort to recruit members of the previous Expert Group to join any such revision effort.

### 517 **3.3.1.2 Protect the installed base and guard against fragmentation**

518 Changes to the Java programming language, the Java virtual machine (JVM,) the Java Native Inter-  
519 face (JNI,) packages in the "java.\*" space, or other packages delivered only as part of Java SE, have  
520 the potential to seriously disrupt the installed base if carried out inconsistently across the Platform Edi-  
521 tions. In order to protect the installed base, any such changes can only be accepted and carried out  
522 within a UJSR for Java SE.

523 In order to guard against fragmentation, new Platform Edition Specifications must not substantially du-  
524 plicate existing Platform Editions or Profiles.

### 525 **3.3.1.3 Profiles and API Specifications target current Platform Editions**

526 All new or revised Specifications must be compatible with the most recent versions of the targeted  
527 Platform Edition Specifications. In order to achieve this, all UJSRs to define new Profile Specifications  
528 or revise existing Profile Specifications must reference either the most recent Release version of the  
529 Platform Edition Specification they are based upon or a newer version of that Specification that is un-  
530 der development via an active UJSR.

### 531 **3.3.1.4 Platform inclusion**

532 JSR submissions are required to state whether the JSR's RI and TCK will be delivered as part of a  
533 Profile or Platform Edition, in standalone manner, or both. The final decision as to whether a specific  
534 JSR is included in a Profile or a Platform Edition is made by the Spec Lead and Expert Group of the  
535 Platform Edition or Profile JSR, and is confirmed by the EC ballots on the relevant JSR. If the Spec  
536 Lead for the Platform Edition or Profile JSR turns down a request for inclusion then the JSR must de-  
537 liver a standalone RI and TCK.

538 Technologies may be incorporated into a Profile or Platform Edition after having been initially delivered  
539 standalone. A JSR for a new version of an API that proposes to become part of a Profile or Platform  
540 Edition and is considering discontinuing standalone availability must state the rationale for this change  
541 and must inform the public of the intention to discontinue the availability of the standalone RI, and TCK  
542 one JSR submission in advance.

### 543 **3.3.2 JSR review**

544 When a JSR is received, the PMO shall give it a tracking number, create its JSR Page, announce the  
545 proposed JSR to the public, and begin JSR Review. Comments on the JSR should be provided  
546 through the JSR's public feedback communication mechanism. Comments shall be forwarded to the  
547 EC for its consideration and shall be made available from the JSR Page (similar comments may be  
548 consolidated.) Members who are interested in joining the Expert Group (should the JSR be approved)  
549 should identify themselves by submitting a nomination form to the PMO.

### 550 **3.3.2.1 Disclosure of licensing terms**

551 The Spec Lead is responsible for developing the Reference Implementation and Technology Compati-  
552 bility Kit and for licensing them as described in the JSPA. The Spec Lead must provide the EC with  
553 complete copies of the proposed Specification, RI, and TCK licenses no later than the start of JSR  
554 Review. The PMO will publish the licenses on the JSR page. EC members should provide feedback  
555 on the terms as an indication of how the community as a whole might react to the terms. If EC mem-  
556 bers believe that the proposed licensing terms are not compatible with the licensing guidelines estab-  
557 lished for use within the JCP, then balloting on the proposed JSR shall be delayed until Oracle legal  
558 provides an opinion on the matter.

### 559 **3.3.3 JSR Approval Ballot**

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

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

### 567 **3.3.4 Form the Expert Group**

568 When a JSR is approved the PMO instructs the identified Spec Lead to form the Expert Group and to  
569 identify additional Members who may be interested in serving as Contributors. Many of the latter are  
570 likely to be Affiliate Members (who are prohibited from participating as Expert Group members). Affili-  
571 ate Members may designate an association with a Partner Member when serving as a Contributor to a  
572 JSR.

573 If the Member contributing the Spec Lead withdraws from the JCP before the JSR is approved, the  
574 PMO shall request the preliminary Expert Group to choose a replacement.

## 575 **3.4 Draft releases**

### 576 **3.4.1 Write the first draft of the Specification**

577 The Expert Group should begin work by considering the requirements set forth in the JSR, any con-  
578 tributed documents or technology descriptions, comments received during JSR Review and, if this is a  
579 revision of an existing Specification, the Issue List maintained by the Maintenance Lead (see section  
580 3.6.) Additional input can be obtained from discussions with other Members, industry groups, software  
581 developers, end-users, and academics. The goal is to define requirements and then write a draft  
582 Specification suitable for review by the community and the public.

583 When the Expert Group decides that the first draft is ready for review, the Spec Lead shall send the  
584 draft, along with any additional files required for review, to the PMO. The Spec Lead should also sug-  
585 gest the length of the Early Draft Review period if the Expert Group feels it should go beyond the min-  
586 imum 30 days.

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

### 589 **3.4.2 Early Draft Review**

590 Refinement of the draft Specification begins when the PMO posts it to the JCP Website and announc-  
591 es the start of Early Draft Review. The goal of Early Draft Review is to get the draft Specification into a  
592 form suitable for Public Review as quickly as possible by uncovering and correcting major problems  
593 with the draft. Early Draft Review is an early-access review, and should ideally take place when the  
594 Specification still has some unresolved issues. The public's participation in Early Draft Review is an

595 important part of the process since in the past, comments from the public have raised fundamental  
596 architectural and technological issues that have considerably improved some Specifications.

### 597 **3.4.3 Updating the draft during Early Draft Review**

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

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

### 604 **3.4.4 Public Review**

605 Public Review begins when the PMO posts a new draft Specification on the JCP Website and an-  
606 nounces its availability for public review and comment.

607 The Spec Lead is responsible for ensuring that all comments are read and considered. If those com-  
608 ments result in revisions to the draft, and those revisions result in major changes (in the opinion of the  
609 Expert Group,) then the Spec Lead must send an updated draft (with a summary of the changes) to  
610 the PMO at least 10 days before the review period ends. The PMO shall post the new draft and the  
611 change summary on the JCP Website at least 7 days before the review period ends and shall notify  
612 the public that the new draft is available.

### 613 **3.4.5 Public Draft Specification Approval Ballot**

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

617 If the Public Draft Specification Ballot fails, the Expert Group will have 30 days to update the draft in  
618 response to the concerns raised by the EC and to submit a revised version to the PMO. If a revised  
619 draft is not received within 30 days, the original decision by the EC shall stand and the PMO will de-  
620 clare the JSR closed. If a revision is received, the PMO shall forward it to the EC and initiate a Public  
621 Draft Specification Reconsideration Ballot. At the close of balloting, all comments submitted by EC  
622 members with their ballots shall be circulated to the Expert Group by the PMO. If this ballot fails, the  
623 JSR will be closed and the Expert Group will be disbanded. If the JSR was a revision to an existing  
624 Specification, the Spec Lead shall resume the role of Maintenance Lead of the current Specification  
625 (see section 3.6.)

## 626 **3.5 Final Release**

### 627 **3.5.1 Proposed Final Draft**

628 If the Public Draft Specification Approval Ballot (or Reconsideration Ballot) is successful, the Expert  
629 Group shall prepare the Proposed Final Draft of the Specification by completing any revisions it deems  
630 necessary to respond to comments. The Spec Lead shall then send the Proposed Final Draft to the  
631 PMO, which shall post it on the JCP Website for public download.

### 632 **3.5.2 Complete the RI and TCK**

633 The Spec Lead is responsible for the completion of both the RI and the TCK. JSRs that are targeted at  
634 more than one platform are required to support each environment, which may require a separate RI  
635 and TCK for each environment. If the RI and TCK uncover areas of the Specification that were under-  
636 defined, incomplete, or ambiguous, the Spec Lead shall work with the Expert Group to correct those  
637 deficiencies and then send a revised Specification together with a summary of the changes to the  
638 PMO. Information shall be posted to the JCP Website. The Expert Group shall continue to consider  
639 any further comments received during this time.



### 640 **3.5.3 Establish a first-level TCK Appeals Process**

641 The Spec Lead is also responsible for establishing a clearly defined First Level TCK Appeals Process  
642 to address challenges to tests contained in the TCK. This process must be described in the TCK doc-  
643 umentation. Implementers who are not satisfied with a first level decision should appeal to the EC by  
644 documenting their concerns in an email message to the PMO. The PMO will circulate the request to  
645 the EC, together with any information received from the ML concerning the rationale for the first-level  
646 decision, and initiate a 7-day Appeal Ballot.

### 647 **3.5.4 Update the deliverables in response to a TCK appeal**

648 Depending on the nature of the problem, a successful TCK challenge will require updating one or  
649 more of the TCK, the Specification, and the RI. Within 30 days of the close of a successful TCK Ap-  
650 peal Ballot the Maintenance Lead must update these deliverables as necessary and report the chang-  
651 es to the PMO when the Specification (if changed) and URLs for the updated RI and/or TCK are deliv-  
652 ered for publication on the JCP Website.

### 653 **3.5.5 Final Approval Ballot**

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

659 In order to assist the PMO in tracking the number of “Active JSRs”, at the time of submission of the  
660 final materials the Spec Lead shall inform the PMO whether it is expected that the JSR will be further  
661 developed via Maintenance Releases or a new follow-on JSR. The TCK submitted as part of the Final  
662 Draft must meet the following requirements:

- 663 • Include documentation covering configuration and execution of the TCK, any other information  
664 needed to use the TCK (e.g. documentation for any supplied tools,) a definition and explanation  
665 of the First-level TCK Appeals Process, and the compatibility requirements that must be met in  
666 addition to passing the TCK tests
- 667 • The compatibility requirements at a minimum must specify that all compatible implementations  
668 • fully implement the Spec(s) including all required interfaces and functionality, and  
669 • do not modify, subset, superset, or otherwise extend the Licensor Name Space, or include any  
670 public or protected packages, classes, Java interfaces, fields or methods within the Licensor  
671 Name Space other than those required/authorized by the Specification or Specifications being  
672 implemented.
- 673 • These requirements must apply unless the Specification or TCK explicitly allows exceptions.
- 674 • Be accompanied by a test harness, scripts or other means to automate the test execution and  
675 recording of results.
- 676 • Include a TCK coverage document that will help EC members to evaluate the TCK's quality. This  
677 document should include an overview of the documentation included in the TCK, a description of  
678 means used to validate the quality of the TCK, the criteria used to measure TCK test coverage of  
679 the Specification, test coverage numbers achieved, and a justification for the adequacy of TCK  
680 quality and its test coverage.
- 681 • Provide 100% signature test coverage. These tests must ensure that all of the API signatures re-  
682 quired by the Specification are completely implemented and that only API signatures required by  
683 the Specification are included in the JSR's namespace.
- 684 • TCK license terms must permit implementers to freely and publicly discuss the testing process  
685 and detailed TCK test results with all interested parties.

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

688 If no responses are received within 30 days the original decision of the EC shall stand, the PMO shall  
689 close the JSR, and the Expert Group shall disband. If the JSR was a revision to an existing Specifica-  
690 tion, the Spec Lead shall resume the role of Maintenance Lead of the current Specification (see sec-  
691 tion 3.6.)

692 If a response is received, the PMO shall circulate it to all EC members for a Final Approval Reconsid-  
693 eration Ballot. At the close of balloting, all ballot comments submitted by EC members shall be circu-  
694 lated to the Expert Group by the PMO. If the reconsideration ballot fails, the JSR will be closed and the  
695 Expert Group will disband. If the JSR was a revision to an existing Specification, the Spec Lead will  
696 resume the role of Maintenance Lead of the current Specification.

### 697 **3.5.6 Final Release**

698 Within 14 days of a successful Final Approval Ballot or Reconsideration Ballot, the PMO shall publish  
699 on the JCP Website the Specification and links to information on how to obtain the RI and TCK, and  
700 shall announce the availability of these materials to both Members and the public. The published TCK  
701 information must include a means for any interested party to obtain a copy of the TCK documentation  
702 at no charge. Upon Final Release, the Expert Group will have completed its work and disbands. The  
703 Spec Lead will typically become the Maintenance Lead and may call upon Expert Group members and  
704 others for aid in that role.

705 The Maintenance Lead must ensure that the links to the RI and TCK remain valid. If the links become  
706 non-functional the Maintenance Lead will have 30 days following notification from the PMO to correct  
707 them. If the problems are not corrected the PMO will initiate a JSR Withdrawal Ballot (if no Mainte-  
708 nance Release has been completed) or a Maintenance Release Withdrawal Ballot (if a Maintenance  
709 Release has been made) to determine whether the Maintenance Lead shall be judged to have aban-  
710 doned the JSR. If the ballot passes the JSR itself or the relevant Maintenance Release will be marked  
711 as *withdrawn*.

## 712 **3.6 Maintenance**

### 713 **3.6.1 Maintenance Lead responsibilities**

714 The Maintenance Lead Member is expected to assume long term ownership of the Specification, RI,  
715 and TCK while respecting the JCP Members' wishes regard to evolution. A Maintenance Lead shall  
716 therefore automatically be the Spec Lead for all significant future revisions to their Specification but  
717 shall not have the exclusive right to decide when a significant revision will take place (see section  
718 3.3.1.1.)

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

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

724 All changes proposed by the ML shall be incorporated into the Specification either through the Mainte-  
725 nance Release process (described below) or through a new JSR. Changes appropriate for a Mainte-  
726 nance Release include bug-fixes, clarifications of the Specification, changes to the implementation of  
727 existing APIs, and implementation-specific enhancements. Changes introduced in Maintenance Re-  
728 leases – for example, modifications to existing APIs or the addition of new APIs - must not break bina-  
729 ry compatibility as defined by the Java Language Specification. Changes that would break binary  
730 compatibility should therefore be deferred to a new JSR.

### 731 **3.6.2 Relinquishing ownership**

732 If the Maintenance Lead decides to discontinue his or her work at any time (including discontinuing  
733 maintenance activities or declining to take on the role of Spec Lead during a significant revision initiat-

734 ed by a new JSR) the ML, with the assistance of the PMO, should make a reasonable effort to locate  
735 another Member who is willing to take on the task. If a replacement is identified the PMO must initiate  
736 a Transfer Ballot within 30 days to enable EC members to approve the transfer of responsibilities. If  
737 the ballot succeeds, the new ML must assume his or her responsibilities within 30 days. In order to  
738 facilitate such a transfer of responsibilities the outgoing Maintenance Lead is strongly encouraged to  
739 transfer all its Intellectual Property rights in the existing JSR to the new ML.

740 If no replacement can be found, or if the Transfer Ballot fails, then the PMO shall declare the Specifi-  
741 cation to be Dormant and no further maintenance can be carried out. No further Transfer Ballots will  
742 be initiated by the PMO unless a Member volunteers as ML, in which case the PMO will again have 30  
743 days to initiate a Transfer Ballot.

### 744 **3.6.3 Maintenance Review**

745 The Maintenance Lead shall document all proposed Specification changes through the Issue Tracker  
746 and then send a request to the PMO to initiate a Maintenance Review. This request must be accom-  
747 panied by an Issue List that summarizes all formal comments that have been received and that indi-  
748 cates the disposition of each Issue. The Maintenance Lead must also supply a summary of the pro-  
749 posed Specification changes, ideally in the form of a *diff* between the proposed and the current Speci-  
750 fication. The Maintenance Lead must also provide an estimate of when the final materials for the  
751 Maintenance Release will be delivered. If no estimate is provided the deadline will default to 30 days.

752 The PMO shall post the materials on the JCP Website for public review. By default the review period is  
753 30 days, but if time is short the Maintenance Lead may request the PMO to grant an exception and  
754 reduce the review period to 14 days.

755 The Maintenance Lead may choose to modify one or more of the proposed changes based on com-  
756 ments received during the review. If so, the ML must deliver the appropriate modified materials to the  
757 PMO no later than 10 days before the close of the review and the PMO must post them online no later  
758 than 7 days before the close of the review.

### 759 **3.6.4 Maintenance Review Ballot**

760 At the close of the Maintenance Review the PMO shall initiate a 14-day Maintenance Review Ballot.  
761 During this ballot EC members should vote 'yes' if they agree that the Maintenance Release should  
762 proceed as the Spec Lead has proposed, and 'no' if they have objections to the proposed release on  
763 one of the following grounds:

- 764 • One or more of the changes proposed by the Maintenance Lead is inappropriate for a Mainte-  
765 nance Release and should be deferred to a follow-on JSR.
- 766 • An issue that was referenced in a conditional yes vote (when an EC member voted "yes" with a  
767 comment stating the expectation that it would be addressed in the future) has not been ad-  
768 dressed. The proposed Maintenance Release date is too far in the future. (EC members should  
769 bear in mind that many Maintenance Releases need to be synchronized with updates to a Plat-  
770 form, and that a Maintenance Review may therefore need to be carried out significantly in ad-  
771 vance of the proposed Platform release.)
- 772 • Unreasonable changes have been made to the RI or TCK licensing terms.

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

775 If the ballot fails, the Maintenance Lead may make any necessary corrections before requesting an-  
776 other Maintenance Review and ballot. The process may be repeated any number of times.

### 777 **3.6.5 Maintenance Release**

778 After a successful Maintenance Review Ballot the Maintenance Lead will update the Specification, RI,  
779 TCK, and Issue List as necessary and submit them to the PMO for publication in a Maintenance Re-

780 lease. The PMO verifies that the necessary changes have been made, and publishes the Specifica-  
781 tion, the Issue List, and pointers to the RI and TCK on the JSR Web Page.

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

784 If the Maintenance Lead fails to deliver the final materials within the time-period specified at the begin-  
785 ning of the Maintenance Review process the PMO shall inform the Maintenance Lead of an impending  
786 Maintenance Renewal Ballot, and shall request the Maintenance Lead to prepare a public statement  
787 to the EC that explains the reason for the delay and provides a new deadline. 30 days after this re-  
788 quest the PMO shall initiate a Maintenance Renewal Ballot to determine whether the deadline may be  
789 extended as requested or whether the previous Maintenance Review should be rescinded and the  
790 Maintenance Lead be required to go through another Maintenance Review.

## 791 **3.7 Executive Committee policies and procedures**

### 792 **3.7.1 Scope**

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

### 795 **3.7.2 Membership**

796 The EC is composed of 25 Java Community Process Members whose seats are allocated as follows:  
797 14 Ratified Seats, 7 Elected Seats, and 2 Community Seats, plus one permanent seat held by Oracle.  
798 (Oracle's representative must not be a member of the PMO.) The EC is led by a non-voting Chair from  
799 the PMO.

800 Full Members and Partner Members can run for election to EC seats. Affiliate JCP Members cannot  
801 run for election.

802 No Member may hold more than one seat on the EC. Therefore, should a Member on the EC acquire  
803 a majority ownership of another EC member, one of those members must resign his or her seat by the  
804 effective date of the acquisition. Similarly, no Member may run for more than one EC seat, nor may  
805 more than one individual Member or Partner Member employed by the same employer run for an EC  
806 seat.

### 807 **3.7.3 EC duties and responsibilities**

808 The Executive Committee has the following responsibilities:

- 809 • Select JSRs for development within the JCP.
- 810 • Review and provide guidance on proposed licensing terms of proposed JSRs.
- 811 • Approve draft Specifications after Public Review.
- 812 • Ensure that publicly expressed issues/concerns with a JSR are addressed by the Expert Group.
- 813 • Give final approval to completed Specifications and their associated RIs and TCKs.
- 814 • Decide appeals of first-level TCK test challenges.
- 815 • Review proposed maintenance revisions and possibly require some to be carried out in a new  
816 JSR.
- 817 • Approve the transfer of maintenance duties between Members.
- 818 • Decide when JSRs that have not made sufficient progress through the Process should be with-  
819 drawn.
- 820 • Provide guidance to the PMO and JCP community to promote the efficient operation of the or-  
821 ganization and to guide the evolution of Java platforms and technologies. Such guidance may be  
822 provided by mechanisms such as publishing white papers, reports, or comments as the EC  
823 deems appropriate to express the opinions of one or both Executive Committees.

824

825 Members of the Executive Committee should be dedicated to the principles of full and open competi-  
826 tion, in full compliance with all applicable laws, including all antitrust laws of the United States and  
827 other nations and governmental bodies as appropriate. Violations of such laws can result in criminal  
828 as well as civil penalties for individuals as well as employers, depending on the jurisdiction. In particu-  
829 lar, any discussion related to product pricing, methods or channels of distribution, division of markets  
830 or allocation of customers, among other subjects, should be avoided.

### 831 **3.7.4 EC selection process and length of terms**

832 EC members serve two-year terms, which are staggered so that half of the seats are up for election  
833 each year. Full Members and Partner JCP Members vote for the Ratified and Elected Seats. Affiliate  
834 JCP Members vote for the Community Seats.

#### 835 **3.7.4.1 Resignation of EC seats**

836 EC members may resign their seats at any time during their term.

837 EC members who fail to remain JCP Members forfeit their EC seat.

838 Seats may also be forfeited due to non-attendance at EC meetings, as specified in the EC Standing  
839 Rules.

840 Vacated seats are normally filled for the remainder of their term by a special election ballot that will be  
841 held no later than two months after the resignation unless the resignation is less than six months be-  
842 fore the next scheduled annual election ballot.

#### 843 **3.7.4.2 Election processes**

844 All Full Members are eligible to vote in ballots for Ratified and Elected Seats subject to the provision  
845 that if a Member has majority-ownership of one or more other Members then that group of Members  
846 shall collectively have one vote, which shall be cast by the person they designate to be their repre-  
847 sentative for the ballot in question. Similarly, if there is more than one individual Full Member with the  
848 same employer they will collectively have one vote, which shall be cast by the person they designate  
849 to be their representative for the ballot in question.

850 Annual elections for Ratified, Elected and Community Seats shall be held simultaneously. Voting in  
851 these elections shall start in the last quarter of the calendar year, four weeks after the close of the  
852 nomination period.

853

854 In the interest of promoting transparency and participation in the election process the PMO shall or-  
855 ganize teleconferences at which the Members have an opportunity to hear from and to ask questions  
856 of the candidates. If a suitable venue such as JavaOne is available the PMO shall also organize a  
857 public meeting with the same purpose.

858

### 859 **3.7.5 Selection process for Ratified Seats**

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

- 861 • The PMO nominates Members to fill the vacant Ratified Seats with due regard for balanced  
862 community and regional representation.
- 863 • Full and Partner Members will vote to ratify each nominee over a 14-day ballot period.
- 864 • A nominee is ratified by a simple majority of those who cast a vote.
- 865 • If one or more of the nominees is not ratified by the vote, the PMO shall nominate additional  
866 Members as needed and hold additional ratification ballots until the vacant seats are filled.

### 867 **3.7.6 Selection process for Elected and Community Seats**

868 Members are selected for the Elected and Community Seats using an open election process that is  
869 carried out as follows:

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- Six weeks before the ballot the PMO shall post on the public JCP site a complete description of all materials (candidate statements, position papers, etc.) that candidates will be expected provide for posting during the election. At the same time the PMO shall announce that nominations will be accepted for a period of 14 days.
  - All Members may nominate themselves for election to these seats except that employees of or those who have a contractual relationship with JCP Members cannot run for election as individuals and the PMO shall reject such nominations.
  - During the 14-day ballot period Eligible Members may vote for as many nominees as there are vacant seats. (Full and Partner Members may vote for Elected Seats; Affiliate members may vote for Community Seats.)
  - The nominees who receive the most votes shall fill the vacant Seats.
  - If there is only one nominee for a vacant 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 a vacant 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>.

### 887 **3.7.7 JSR ballot rules**

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- All JSR ballots shall be conducted electronically and the results made public.
  - JSR ballots last 14 days except where noted in this document.
  - 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.
  - Only "yes" and "no" votes count in determining the result of a JSR ballot.
  - Any vote may be accompanied by comments (which are particularly encouraged in the case of abstentions.) 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".
  - 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.
  - Ballots to approve Umbrella JSRs 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.
  - When a failed JSR ballot results in the closing of a JSR, at least 30 days must pass before the JSR can be re-initiated.
  - 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.

## 910 **4. APPENDIX A: REVISING THE JCP AND THE JSPA**

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

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

918 Although no TCK is required for process-change JSRs it is still necessary to verify whether these  
919 JSRs are implemented completely, correctly, and successfully.

920  
921 In addition to the modified documents (the Process Document and/or the JSPA) the Expert Group  
922 shall therefore publish a *JSR Review and Evaluation* form containing evaluation questions relating to  
923 each non-trivial change introduced by the JSR.

924  
925 Within 12 months of completing the JSR the EC must to use this form to review and evaluate the im-  
926 plementation of the JSR. The EC should then take any actions it might think necessary to correct or  
927 improve any identified problems or omissions. In the interests of transparency the results of the review  
928 and a summary of all follow-on actions taken must be made public.

## 929 930 **5. APPENDIX B: TRANSITIONING TO JCP 2.10**

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932 In the previous version (2.9) of this Process Document there were only two different types of EC seat:  
933 Nominated and Elected. In JCP 2.10 two of the existing Elected Seats will be reclassified as a third  
934 type: Community Seats. In order to ensure that this transition is performed in a manner that is fair to all  
935 Elected members, all of those members will be required to run for reelection in 2015 when the new  
936 Community Seats will be created.

937 The 2014 annual elections will be held as defined in JCP 2.9, but candidates will be informed that if  
938 they are elected their term will be for only a single year, since all candidates must stand for re-election  
939 in 2015. Members elected in 2015 will be ranked to determine whether their initial term will be one or  
940 two years. The 50% of Elected and Community members who receive the most votes will serve an  
941 initial two-year term, while all others will serve an initial one year term. All members elected in 2016  
942 and subsequently will serve a two-year term.