

JCP:2 Process Document

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I EXECUTIVE SUMMARY

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

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

~~by means of JSR 348, led by Oracle and the combined Executive Committees as the Expert Group, through the JCP This version of the JCP was developed~~

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

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

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

52 | This version of the JCP was developed using the Java Community Process itself by means of JSR
53 | 348, led by Oracle ~~awith~~ ~~nd~~ the combined Executive Committees ~~as~~ forming the Expert Group.

54 | II DEFINITIONS

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

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

58 | ~~**Change Log:** An area accessible from the JSR Page that lists all changes made to the~~
59 | ~~Specification, RI, TCK, and licenses since the previous release. A Change Log has six~~
60 | ~~sections: PROPOSED (changes not yet made to the Specification), ACCEPTED (changes~~
61 | ~~made to the Specification), DEFERRED (changes to be considered in a new JSR), RI~~
62 | ~~(changes made to the RI), TCK (changes made to the TCK) and LICENSING (changes to~~
63 | ~~the licensing terms)~~

64 | **Ballot:** See Appeal Ballot, Final Approval Ballot, Final Approval Reconsideration Ballot,
65 | JSR Approval Ballot, JSR Reconsideration Ballot, JSR Renewal Ballot, JSR Renewal
66 | Reconsideration Ballot, JSR Withdrawal Ballot, Maintenance Review Ballot, Maintenance
67 | Renewal Ballot, Maintenance Release Withdrawal Ballot, Public Draft Specification
68 | Approval Ballot, Public Draft Specification Reconsideration Ballot, Transfer Ballot.

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

72 | ~~**Dormant Specification (Dormant):** A Specification that does not have an identified~~
73 | ~~Maintenance Lead. All Specifications become Dormant at the end of their life cycles. A~~
74 | ~~Specification that the PMO has determined has no assigned Specification Lead or~~
75 | ~~Maintenance Lead, or that is not being actively developed and on which no further~~
76 | ~~development is anticipated.~~

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

79 | **Elected Seat:** -An EC seat filled by the election process described in section ~~5.3.46.4.4~~.

80 | **Executive Committee (EC):** The Members who guide the evolution of the Java
81 | technologies. The EC represents a cross-section of both major stakeholders and other
82 | Members of the Java ~~C~~community. EC members are ~~appointed~~appointed in an annual
83 | election ~~process.~~The process. The EC Policies and Procedures are specified in the EC
84 | Standing Rules, which is a separate document.

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

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

89 | **Final Approval Ballot:** The 14-day EC ballot to approve the Final Draft along with its

90 associated RI and TCK.

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

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

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

96 **First-Level TCK Appeals Process:** The process defined by the Spec Lead that allows
97 ~~implementer~~[implementor](#)s of the Specification to appeal one or more tests defined by the
98 Specification's TCK. ~~Item Exception Ballot: The EC ballot to determine whether or not to~~
99 ~~include specific change items in a Maintenance Release.~~

100 |

101 |

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

103 | **Issue List:** A list of Issues generated from an Issue Tracker, identifying the disposition of
104 each.

105 | **Issue Tracker:** A mechanism to allow issues (problems, tasks, comments, or requests for
106 change) to be recorded and tracked by priority, status, owner, or other criteria. The Issue
107 Tracker should permit issues to be identified by states such as open, resolved, and closed
108 and should support the assignment of resolution types such as deferred (postponed to a
109 follow-on release,) fixed (implemented,) challenged (no satisfactory resolution,) and
110 rejected (deemed inappropriate or out of scope.)

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

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

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

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

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

124 | **JCP ~~Site~~[Web-Website](#):** The web-site where ~~anyone~~[the public](#) can stay informed about

125 JCP activities, download draft and final Specifications, and follow the progress of
 126 Specifications through the JCP.

127 **JSR Approval Ballot:** ~~The~~[A two-week EC ballot to determine if the initial JSR submission](#)
 128 [should be approved](#)~~The EC ballot to determine if the JSR should be approved.~~

129 **JSR Reconsideration Ballot:** The EC ballot to determine if a revised[edion of an initial JSR](#)
 130 [submission](#) should be approved.

131 **JSR Page:** Each JSR has a dedicated public web page on the JCP Web ~~Sbs~~ite where the
 132 JSR's history is recorded and where other relevant information about the JSR is published.

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

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

136 **JSR Review:** A ~~four~~[two- to four-](#)week period [\(the length to be set at the discretion of the](#)
 137 [submitter\) during which the public can review and comment on a proposed new JSR](#)
 138 [before the JSR Approval Ballot.](#)

139 ~~during which the public can review and comment on a new JSR.~~ **JSR Withdrawal Ballot:**
 140 [An EC ballot to confirm that a completed JSR that appears to have been abandoned](#)
 141 [should be withdrawn.](#)

142 **Licensor Name Space:** The public class or interface declarations whose names begin
 143 with "java", "javax", "com.sun" (or "com.Your name" if You are the Specification Lead) or
 144 their equivalents in any subsequent naming convention adopted by Oracle.

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

146 **Maintenance Lead Member:** [The individual JCP member who is a Maintenance Lead, or](#)
 147 [the company or organization that is represented by the Maintenance Lead.](#)

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

150 **Maintenance Review:** A period of at least 30 days prior to finalization of a Maintenance
 151 Release when Members and the public consider and comment on the change [the](#)
 152 ~~Spee~~[Maintenance Lead proposes to include in the release, as identified in the associated](#)
 153 [Issue List.](#)~~items listed in the PROPOSED section of the Change Log.~~

154 **Maintenance Review Ballot:** An EC ballot to determine whether the changes [and time](#)
 155 [line](#) proposed by a Maintenance Lead are appropriate for a Maintenance Release.

156 **Maintenance Renewal Ballot:** [a ballot during which EC members vote on whether to](#)
 157 [permit a Maintenance Lead to extend the deadline for delivery of materials for](#)
 158 [Maintenance Release, or whether the previous Maintenance Review should be rescinded](#)
 159 [and the ML be required to start the process again.](#)

160 **Maintenance Release Withdrawal Ballot:** An EC ballot to confirm that a completed

161 | [Maintenance Release that appears to have been abandoned should be withdrawn.](#)

162 | [**Member:** See Agent, Java Community Process Member, Member Associate, Member](#)
163 | [Representative.](#)

164 | [**Member Associate:** An individual who is associated with a Member organization but is not](#)
165 | [an Agent of that organization.](#)

166 | **Member Representative:** An ~~employee~~[Agent](#) of a Member company or ~~an associate of a~~
167 | Member organization who ~~has been approved by the Member to~~ represents [its interests](#)
168 | within the JCP.

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

173 | **Profile Specification (Profile):** A Specification that references one of the Platform Edition
174 | Specifications and zero or more other JCP Specifications (that are not already a part of a
175 | Platform Edition Specification).~~.)~~ APIs from the referenced Platform Edition must be
176 | included according to the referencing rules set out in that Platform Edition Specification.
177 | Other referenced Specifications must be referenced in their entirety.

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

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

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

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

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

188 | **Ratified Seat:** An EC seat filled by the ratification process described in section ~~5.3.3~~[6.4.3](#).

189 | **Reference Implementation (RI):** The prototype or "proof of concept" implementation of a
190 | Specification.

191 | [**Release:** A Final Release or a Maintenance Release](#)

192 | [**Specification:** See Java Specification.](#)

193 | **Specification Lead (Spec Lead):** The Expert responsible for leading the effort to develop
194 | or make significant revisions to a Specification and for completing the associated

195 Reference Implementation and Technology Compatibility Kit. A Spec Lead (or the Spec
196 Lead's host company or organization) must be a Java Community Process Member.

197 **Specification Lead Member (Spec Lead Member):** The individual JCP member who is a
198 Spec Lead, or otherwise the company or organization that ~~employs, and~~ is represented by,
199 the Spec Lead.

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

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

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

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

209 The use of the words “must”, “must not”, “required”, “shall”, “shall not”, “should”, “should
210 not”, “recommended”, “may” and “optional” in this document is done in accordance with the
211 IETF's RFC 2119.

212 III THE JAVA COMMUNITY PROCESSSM PROGRAM

213 1. GENERAL PROCEDURES

214 1.1 EXPERT GROUP TRANSPARENCY

215 Each Expert Group is free to use the working style that it finds most productive and appropriate, so
216 long as this is compatible with the requirements specified in this document. For example, an EGs may
217 choose to ~~to advance consensus~~operate by seeking move forward only when there is general
218 agreement among its members, or by voting on issues ~~wherewhen~~ there is disagreement.

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

225 In the initial JSR submission the Spec Lead must specify the transparency mechanisms (for example,
226 the ~~mailing-lists~~communication mechanisms and ~~issue T~~tracker) that the Expert Group intends to
227 adopt, and must provide the URLs for accessing the chosen collaboration tools. The PMO ~~will~~shall
228 publish this information on the ~~public~~ JSR Page. The Spec Lead must also provide a pointer to any
229 Terms of Use required to use the collaboration tools so that the EC and prospective EG members can
230 judge whether they are compatible with the JSPA.

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.

231 If the EG changes its collaboration tools during the life of the JSR these changes must be reported to
232 the PMO, ~~whewhich will~~shall update the relevant information on the JSR Page. Any such changes
233 must ensure that previously-published information is incorporated into the new tools.

234 When voting to approve a JSR's transition to the next stage, EC members are expected to take into
235 consideration the extent to which the Spec Lead is meeting the transparency requirements.

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

241 The use of *Confidential* ~~materials~~Information (as defined in the JSPA) by Expert Groups limits
242 transparency, is strongly discouraged, and will be prohibited in a future version of the Process. If the
243 Spec Lead intends to permit the use of **Confidential** ~~materials~~Information (such as emails, drafts, or
244 submissions marked as *Confidential*); this must be specified in the initial Java Specification
245 Request. ~~Expert Groups may also choose to keep information private by means other than marking it~~
246 ~~as Confidential (for example, by not publishing it on a publicly available site).~~²

247 **1.1.1 Mailing Lists**PUBLIC COMMUNICATIONS ~~the EG must also provide a publicly~~
248 ~~readable and writable email list or a forum to enable feedback and comments from the~~
249 ~~public. public mailing list is writable only by Expert Group members publication of the~~
250 ~~agenda, and on-going debate about JSR specifics. Non-substantive administrative~~
251 ~~matters such as notifications of meeting schedules, messages directing Expert Group~~
252 ~~members to particular documents or URLs, and reminders about voting or task~~
253 ~~assignments should be excluded from the public mailing list.~~

254 ~~If the modifications to the reference implementation or the TCK, be used for minor administrative~~
255 ~~matters. Significant business includes, for example, eliminating or adding new features to the JSR,~~
256 ~~changes to the membership of the Expert Group, should All substantive business must be carried out~~
257 ~~on a public mailing list designated by the Spec Lead. The purpose of this list is to keep observers~~
258 ~~aware of important issues and, minor administrative issues that distract from substantive business~~
259 ~~should therefore be kept private. A private mailing list~~

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

269 **1.1.2 Issue Tracking**ISSUE TRACKING

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

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 meetings.

275 Whenever a Spec Lead or a Maintenance Lead submits materials to the PMO for review or ballot they
276 must also provide an Issue List indicating the disposition of all of the Issues that have been logged
277 against the JSR. Issues logged late in the review cycle may be deferred for later consideration, and
278 Issues that are blatantly off-topic or that appear to have been submitted maliciously or erroneously
279 may be
280 ~~ignored. Issues logged late in the review cycle to be deferred for later consideration, and for Issues~~
281 ~~that are blatantly off-topic or that appear to have been submitted maliciously to be ignored. It is~~
282 ~~permissible for~~

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

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

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

293 **1.1.3 Response to Comments**

294 ~~Expert Groups must respond publicly to all comments before a JSR can move to the next stage. All~~
295 ~~comments regarding a JSR deserve a well-crafted response. Expert groups should review responses~~
296 ~~prior to release to ensure that the response addresses the specific comment. Responses to similar~~
297 ~~comments can be consolidated. Comments that are off-topic do not require a response but should be~~
298 ~~denoted as such. The Executive Committee reserves the right to require that a comment deemed by~~
299 ~~the Expert Group as off-topic be addressed before the JSR moves to the next stage. A formalized~~
300 ~~issue-tracking mechanism will help to ensure that all issues raised by the Java community are~~
301 ~~documented and responded to before the JSR moves to the next stage.~~

302 **1.1.4 Changes to Licensing Terms** **CHANGES TO LICENSING TERMS**~~If the licensing~~
303 ~~terms for a JSR change from one release to the next, the changes must be explicitly~~
304 ~~listed and explained. Changes to the licensing terms must be disclosed during JSR~~
305 ~~submission (in the case of a new JSR) or in the Change Log for Maintenance Releases.~~
306 ~~Subsequent changes to licensing terms during the life of the JSR must be disclosed~~
307 ~~when the Specification is next submitted to the PMO for public posting or review.~~

308 ~~Existing licensees who not wish to accept a modified license when required to adopt a newer TCK will~~
309 ~~have the option to accept the updated TCK under the previous licensing terms.~~

310

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

316 For as long as a JSR is licensed and while it is legally possible to do so the Spec Lead Member must
317 offer the RI and TCK licenses that were published at the time of Final Release, with the exception that
318 reasonable increases in price are permitted. At subsequent Maintenance Releases alternate RI or
319 TCK licenses may also be offered so long as all changes are disclosed, but licensees must be free to
320 choose the original terms if they wish. For example, existing licensees who do not wish to accept a

321 modified license when required to adopt a newer TCK shall have the option to license the updated
322 TCK under the previous terms. If a JSR changes hands the new Maintenance Lead Member must
323 present a license with terms comparable to, or more favorable to licensees than the existing license.
324 ~~During the lifetime of the JSR the Spec Lead must continue to offer the RI and TCK licenses that were~~
325 ~~published at the time of Final Release, with the exception that reasonable increases in price are~~
326 ~~permitted. At subsequent Maintenance Releases alternate RI or TCK licenses may also be offered so~~
327 ~~long as all changes are disclosed, but licensees must be free to choose the original terms if they wish.~~
328 ~~For example, existing licensees who do not wish to accept a modified license when required to adopt~~
329 ~~a newer TCK shall have the option to license the updated TCK under the previous terms.~~
330 When a newer version of a technology is created through a follow-on JSR, the Specification, RI, and
331 TCK license terms for the new JSR may differ from those offered for the previous JSR, but any such
332 changes must be disclosed during JSR submission. The original terms for the previous JSR must be
333 offered for the as long as that lifetime of that JSR is licensed.

334 **1.2 EXPERT GROUP MEMBERSHIP**

335 **1.2.1 EXPERT GROUP COMPOSITION**

336 There is no size limit on the Expert Group. The Spec Lead may add additional Experts at any time
337 ~~provided~~ so long as the existing EG members are consulted. New members may be added, for
338 example, to increase diversity of opinion.
339 ~~-Any JCP Member, Member Representative, or Member Associate may request to join an Expert~~
340 ~~Group at any time by submitting their nomination via the online form provided on the JSR Page.~~
341 ~~Member Associates, since they are not covered by the JSPA of their organization, must sign the JSPA~~
342 ~~in their own right before they can will be permitted to join an Expert Group.~~
343 Details of such requests, including the organizational affiliation of the requester, together with the Spec
344 Lead's official response, substantive deliberations within the EG about the matter, and any other
345 official decisions related to EG membership must be published through the EG's public communication
346 channel. The PMO will ensure that the JSR Page lists the Members who are members of the EG
347 together with the names of individual Member Representatives or Member Associates where
348 appropriate.

349 **1.2.2 WITHDRAWAL OF AN EXPERT FROM THE EXPERT GROUP**

350 An Expert may withdraw from the Expert Group at any time. ~~When this happens, the Spec Lead~~
351 ~~should approach the Member who originally contributed the Expert and work with that organization to~~
352 ~~find a replacement. If no replacement is offered, the Spec Lead may recruit a replacement from~~
353 ~~another Member. If the departing Expert is the Spec Lead, the Expert Group should choose one of its~~
354 ~~members as the new Spec Lead. If the withdrawing Expert is the Spec Lead, the Expert Group, with~~
355 ~~the help of the PMO, should approach the Member who originally contributed the Expert, if any, and~~
356 ~~request them to provide a suitable replacement; if no such replacement is forthcoming, the Expert~~
357 ~~Group should choose one of its members as the new Spec Lead. If the withdrawing Expert is not the~~
358 ~~Spec Lead, the Spec Lead should approach the Member who originally contributed the Expert, if any,~~
359 ~~and work with that organization to find a suitable replacement. If no replacement is offered or is not~~
360 ~~otherwise available, the Spec Lead may recruit a replacement from amongst other Members.~~

361 **1.2.3 DISRUPTIVE, UNCOOPERATIVE OR UNRESPONSIVE EXPERT GROUP MEMBERS**

362 There may be rare instances when members of the Expert Group feel that one of their fellow Experts
363 is not acting in ways that advance the work of the Expert Group, and is being disruptive,
364 uncooperative or unresponsive. EG members are expected to make a reasonable effort to resolve any

365 such issues among themselves, with the active help of the Spec Lead. However, if the situation cannot
366 be resolved in a timely manner, any three members of the EG can approach the Spec Lead and
367 request that the EG member in question be excluded from further participation in the EG. If the Spec
368 Lead agrees to the request he can then do so. In the case where the EG Member in question is an
369 Member Representative, the Spec Lead must first request that the Member replace its representative.
370 If the Member does not do so in a timely manner, the Spec Lead can exclude the Member itself from
371 further EG participation. The Spec Lead's decision as to whether or not to exclude can be appealed to
372 the EC by following the process outlined in Section 0-61.7, "Escalation and Appeals"

373 1.2.4 UNRESPONSIVE OR INACTIVE SPEC LEAD

374 There may be rare instances when members of the Expert Group feel that the Spec Lead is not acting
375 in ways that advance the work of the Expert Group and is being unresponsive or inactive. ~~These~~
376 ~~concerns should be brought to the attention of the EC as quickly as possible so they may be~~
377 ~~proactively addressed and resolved.~~ The EGG is expected to make a reasonable effort to resolve any
378 such issues in a timely manner. However, if the situation cannot be resolved ~~in a timely manner~~ these
379 concerns should be brought to the attention of the EC as quickly as possible so they may be
380 proactively addressed and resolved.

381 If the problems cannot be resolved informally, ~~any~~ three members of the EG may request the EC to
382 replace the Spec Lead. All such requests must clearly state the cause of the concern and provide all
383 necessary evidence. ~~for cause (which should be made clear and documented to the EC).~~ If the EC
384 agrees that there is cause, it may ask the PMO to replace the Spec Lead. In the case where the Spec
385 Lead is an Member Representative the PMO ~~should~~shall ask the Member to replace the Spec Lead. If
386 the Member refuses to do so, the PMO shall, ~~or it may~~ seek to put in place an alternative Spec Lead,
387 in which case the EC must conduct a transfer ballot as specified in section 5.1.2 of this document. If
388 no Spec Lead replacement can be found, the EC ~~may disband the Expert Group~~shall initiate a JSR
389 Renewal Ballot to determine whether the JSR should be shut down.

390 1.3 JSR DEADLINES

391 If a JSR does not begin Early Draft Review within ~~the first 129~~ months ~~following the of~~ completion ng of
392 its ~~initial~~ JSR Approval Ballot (~~JSR Approval~~), or does not begin Public Review within ~~212 months~~years
393 of ~~first submitting an Early Draft~~ JSR Approval, or ~~has~~does not ~~reach~~ achieved Final Release within
394 ~~312 months~~ years of of commencing Public Review JSR Approval, then ~~a majority of~~ the EC
395 ~~may~~should initiate a JSR Renewal Ballot unless it is agreed that there are extraordinary circumstances
396 that justify the delay. The PMO ~~will~~shall inform the Spec Lead and Expert Group of this decision and
397 will request the Spec Lead and Expert Group to prepare a public statement to the EC. The JSR
398 Renewal Ballot ~~will~~shall start 30 days after the request. If the JSR Renewal Ballot is approved by the
399 EC, then another renewal ballot cannot be initiated for that JSR for an additional year.

400 If the JSR Renewal Ballot fails, the Expert Group will have 30 days to update the JSR in response to
401 the concerns raised by the EC, and may submit a revised version to the PMO. If a revised JSR is not
402 received by the end of the 30 days, the original decision by the EC ~~will~~shall stand and the JSR ~~will~~shall
403 be closed. If a revision is received, then the PMO ~~will~~shall forward it to the EC and initiate a JSR
404 Renewal Reconsideration Ballot. At the close of balloting, all comments submitted by EC members,
405 together with their ballots ~~will~~shall be circulated to the Expert Group by the PMO. If this ballot fails, the
406 JSR ~~will~~shall be closed and the Expert Group ~~will~~shall disband. ~~nd.~~

407 ~~If the~~ JSR that is closed through these processes was a revision to an existing Specification, the
408 Spec Lead ~~will~~shall resume the role of Maintenance Lead of the current Specification (~~see section 5~~).

409 1.4 COMPATIBILITY TESTING

410 The Spec Lead is responsible for defining the process whereby the TCK is used to certify
411 implementations of the JSR as compatible. The ~~Spec~~Maintenance Lead must submit to the PMO at
412 least quarterly, ~~and at every Maintenance Release,~~ a list of all implementations that have been
413 certified as compatible and that have been released publicly or commercially. The PMO will publish
414 this information on the JCP ~~w~~Website. If the Spec Lead submits the information in the form of a
415 pointer to an already published list the PMO may choose simply to reference that list rather than
416 duplicate it.

417 TCK license terms must permit implementors to freely and publicly discuss the testing process and
418 detailed TCK test results with ~~their customers~~all interested parties.

419 1.5 EXECUTIVE COMMITTEE DUTIES

420 1.5.1 ~~Transparency~~TRANSPARENCY

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

423 1.5.2 ~~Draft Reviews~~DRAFT REVIEWS

424 During ~~Draft Review periods~~JSR reviews EC members are strongly encouraged to ~~have~~ensure that
425 one or more technical members of their organizations review the draft and provide feedback using the
426 ~~in order to uncover possible duplication of features or services between the draft and other~~
427 ~~Specifications. EC members should inform the Expert Group of any such discoveries using the~~
428 ~~feedback~~ mechanism specified by the Spec Lead. EC feedback is particularly important to the Expert
429 Group, and EC members are encouraged not to wait until ballot periods to raise concerns and issues.

430 1.6 PMO RESPONSE TIMES

431 Materials to be posted on the JCP ~~w~~Website for review, comment, or any other official EG or EC
432 business should be submitted to the PMO, which ~~will~~shall post them on the ~~w~~JCP Website and
433 announce their availability to Members and the public within seven days of receipt: (holiday closures
434 excepted.)

435 1.7 ESCALATION AND APPEALS

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

445 2. INITIATE A NEW OR REVISED SPECIFICATION

446 2.1 INITIATE A JAVA SPECIFICATION REQUEST

447 One or more Members ~~can~~may initiate a request to develop a new Specification, or carry out a
448 significant revision to an existing one, ~~by sending a JSR to the PMO. The JSR must use the template~~
449 ~~available at the JCP Web Site~~by submitting the a JSR Pproposal through the JCP wWebsite, as
450 described in the Spec Lead Guide. ~~Upon request to the PMO any JSR proposal may be withdrawn by~~
451 the submitter(s). ~~Awithout explanation ny JSR under consideration can be withdrawn by its submitter(s)~~
452 ~~without explanation at any time prior to the completion of the JSR approval vote~~Approval Ballot~~to the~~
453 ~~PMO by the submitter(s) upon request .3) 12(see section.~~

454 The following ~~is some of the information required~~information must be to be includedprovided with each
455 JSR:

- 456 • the Members making the request (the submitters),the the proposed Spec Lead, and the initial
457 members of the Expert Group~~.~~.
- 458 • a description of the proposed Specification~~.~~.
- 459 • the reason(s) for developing or revising it~~.~~.
- 460 • the primary Platform Edition, as well as any consideration given to other Platform Editions~~.~~.
- 461 • an estimated development schedule~~.~~.
- 462 • any preexisting documents, technology descriptions, or implementations that might be used as
463 a starting point~~.~~.
- 464 • a transparency plan, which outlines the tools and techniques that the Spec Lead will use,
465 during the ~~creation and~~ development of the Specification, ~~and fo to r~~ communicate ~~the with~~
466 and seek feedback from JCP Members and the public ~~The EC will expect the Spec Lead to~~
467 ~~operate the JSR in accordance with this plan. embers and the public. Mprogress within the~~
468 ~~Expert Group to Community Members, EC.~~.

469 2.1.1 REVISE EXISTING SPECIFICATIONS

470 Existing Specifications, together with their associated RIs and TCKs, are maintained by a designated
471 Maintenance Lead using the processes described in section 4.5 of this document. Maintenance Lead
472 Members are expected to assume long term ownership of the Specification, RI, and TCK while
473 respecting the wishes of ~~the Java Community~~CP Members with regard to evolution. Maintenance
474 Leads ~~will~~shall therefore be the Spec Leads for all significant revisions to their Specifications, but they
475 ~~will~~shall not have the exclusive right to decide when a significant revision will take place. That ~~will~~shall
476 be decided by the EC in response to a revision JSR that can be initiated by any ~~Java Community~~CP
477 Member. Submitter(s) should make a reasonable effort to ~~get some of the~~recruit members of the
478 previous Expert Group to join ~~the~~any such revision effort.

479 2.1.2 PROTECT THE INSTALLED BASE AND GUARD AGAINST FRAGMENTATION

480 Changes to the Java programming language, the Java virtual machine (JVM),the the Java Native
481 Interface (JNI),the packages in the "java.*" space, or other packages delivered only as part of Java SE,
482 have the potential to seriously disrupt the installed base if carried out inconsistently across the
483 Platform Editions. In order to protect the installed base, any such changes can only be accepted and
484 carried out within a UJSR for Java SE.

485 In order to guard against fragmentation, new Platform Edition Specifications ~~will~~must not substantially
486 duplicate existing Platform Editions or Profiles.

487 2.1.3 PROFILES AND API SPECIFICATIONS TARGET CURRENT PLATFORM EDITIONS

488 All new or revised Specifications must be compatible with the most recent versions of the targeted
489 Platform Edition Specifications. In order to achieve this, ~~all UJSRs to define new Profile Specifications~~
490 ~~or revise existing Profile Specifications must reference the latest version of the Platform Edition~~
491 ~~Specification they are based upon.~~ all UJSRs to define new Profile Specifications or revise existing
492 Profile Specifications must reference either the most recent Release version of the Platform Edition
493 Specification they are based upon or a newer version of that Specification that is under development
494 via an active UJSR.

495 2.1.4 PLATFORM INCLUSION

496 ~~The technology that a JSR defines can be delivered as part of a Profile or Platform Edition, it can be~~
497 ~~delivered stand-alone, or both.~~ The JSR submission form requires the submitter to state whether the
498 JSR's RI and TCK should be delivered as part of a Profile or Platform Edition, in stand-alone manner,
499 or both. The final decision as to whether a specific JSR is included in a Profile or a Platform Edition is
500 made by the Spec Lead and Expert Group of ~~that~~ Platform Edition or JSR or Profile JSR, and is
501 confirmed by the EC ballots on ~~those~~ relevant JSRs. If the Spec Lead for the Platform Edition or
502 Profile JSR turns down ~~the~~ a request for inclusion, then the JSR ~~be required to~~ shall ~~for the API must~~
503 deliver a stand-alone RI and TCK.

504 Technologies may be incorporated into a Profile or Platform Edition after having been initially delivered
505 standalone. A JSR for a new version of an API that proposes to become part of a Profile or Platform
506 Edition and is considering discontinuing stand-alone availability must state the rationale for this
507 change and ~~The p~~ must ~~public must be informed the public~~ of the intention to discontinue the
508 availability of the standalone RI, and TCK one ~~release~~ JSR submission in advance.

509 2.2 JSR REVIEW

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

517 2.2.1 DISCLOSURE OF LICENSING TERMS ~~FOR THE RI AND TCK~~

518 The Spec Lead Member is responsible for developing the Reference Implementation and Technology
519 Compatibility Kit- and for licensing them as described in the JSPA. The Spec Lead Member must
520 provide the EC with complete copies of the proposed Specification, RI, and TCK licenses no later than
521 the start of JSR Review. ~~The licenses~~ will shall be published on the ~~public~~ JSR page. EC members
522 should provide feedback on the terms as an indication of how the community as a whole might react to
523 the terms. ~~If the EC~~ Me ~~consensus~~ members believe ~~is~~ that the proposed licensing terms are not
524 compatible with the licensing guidelines established for use within the JCP, then balloting on the
525 proposed JSR ~~will~~ shall be delayed until Oracle legal provides an opinion on the matter. ~~be the final~~
526 ~~decision on the matter will~~ The opinion of Oracle legal

527 2.3 JSR APPROVAL BALLOT

528 After the JSR Review, EC members ~~will~~ shall review the JSR ~~and any comments received, and cast~~
529 their ballot ~~below~~ as specified in Section to decide if the JSR should be approved.

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

535 2.4 FORM THE EXPERT GROUP

536 When a JSR is approved the PMO instructs the identified Spec Lead to form the Expert Group. ~~JSR-~~
537 ~~being approved, the PMO instructs the identified Spec Lead to form the Expert Group. a Within 14-~~
538 ~~days of a~~ If the Member contributing the Spec Lead withdraws from the ~~Community~~JCP before the
539 JSR is approved, the PMO ~~will~~shall request the preliminary Expert Group to choose a replacement
540 from among themselves who is willing to take on the duties defined in this document.

541 ~~.alias, together with the Spec Lead's official response, substantive deliberations within the EG about-~~
542 ~~this matter, and any other official decision related to EG composition, including decisions to remove or-~~
543 ~~replace EG members, must be made public via the EG's public request. The sending an email to the-~~
544 ~~Spec Lead of the EG~~There is no size limit on the Expert Group. The Spec Lead may add additional-
545 ~~Experts at any time provided the existing EG members are consulted. New members may be added,-~~
546 ~~for example, to increase diversity of opinion.~~

547 ~~Any JCP Member or Member Representative can request to join an Expert Group at any time by-~~

548 3. DRAFT RELEASES

549 3.1 WRITE THE FIRST DRAFT OF THE SPECIFICATION

550 The Expert Group should begin work by considering the requirements set forth in the JSR, any
551 contributed documents or technology descriptions, comments received during JSR Review and, if this
552 is a revision of an existing Specification, the ~~Change Log~~Issue List kept maintained by the
553 Maintenance Lead (see section ~~45~~5.) Additional input can be obtained from discussions with other
554 Members, industry groups, software developers, end-users, and academics. The goal is to define
555 requirements and then write a draft Specification suitable for review by the ~~E~~ccommunity and the
556 public.

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

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

563 3.2 EARLY DRAFT REVIEW

564 Refinement of the draft Specification begins when the PMO posts it to the JCP Web-~~S~~site and
565 announces the start of Early Draft Review. ~~Anyone can download and comment on the draft.~~ The goal
566 of Early Draft Review is to get the draft Specification into a form suitable for Public Review as quickly
567 as possible by uncovering and correcting major problems with the draft. Early Draft Review is an early
568 access review, and should ideally take place when the Specification still has some unresolved issues.
569 The public's participation in Early Draft Review is an important part of the ~~process~~JCP. ~~since~~ in the
570 past, comments from the public have raised fundamental architectural and technological issues that
571 have considerably improved some Specifications.

572 3.2.1 UPDATING THE DRAFT DURING EARLY DRAFT REVIEW

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

576 After the Early Draft Review period has ended, the Expert Group can make any additional changes to
577 the draft it deems necessary in response to comments before submitting the draft to the PMO for
578 ~~Public Review~~the next review.

579 3.3 PUBLIC REVIEW

580 Public Review begins when the PMO posts a new draft Specification on the JCP Web-~~S~~site and
581 announces its availability for public review and comment.

582 The Spec Lead is responsible for ensuring that all comments are read and considered. If those
583 comments result in revisions to the draft, and those revisions result in major changes (in the opinion of
584 the Expert Group~~),~~.) then the Spec Lead must send an updated draft (with a summary of the changes)
585 to the PMO before the review period ends. The PMO ~~will~~shall post the new draft and the change
586 summary on the JCP Web-~~S~~site and ~~will~~shall notify the public that the new draft is available.

587 3.4 PUBLIC DRAFT SPECIFICATION APPROVAL BALLOT

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

591 If the Public Draft Specification Ballot fails, the Expert Group will have 30 days to update the draft in
592 response to the concerns raised by the EC and to submit a revised version to the PMO. If a revised
593 draft is not received within 30 days, the original decision by the EC ~~will~~shall stand and the JSR
594 ~~will~~shall be closed. If a revision is received, the PMO ~~will~~shall forward it to the EC and initiate a Public
595 Draft Specification Reconsideration Ballot. At the close of balloting, all comments submitted by EC
596 members with their ballots ~~will~~shall be circulated to the Expert Group by the PMO. If this ballot fails,
597 the JSR ~~will~~shall be closed and the Expert Group ~~will~~shall disband. If the JSR was a revision to an
598 existing Specification, the Spec Lead ~~will~~shall resume the role of Maintenance Lead of the current
599 Specification (see section ~~45~~)..)

600 4. FINAL RELEASE

601 4.1 PROPOSED FINAL DRAFT

602 If the Public Draft Specification Approval Ballot (or Reconsideration Ballot) is successful, the Expert
603 Group ~~will~~shall prepare the Proposed Final Draft of the Specification by completing any revisions it
604 deems necessary in response to comments received. The Spec Lead ~~will~~shall then send the Proposed
605 Final Draft to the PMO, ~~who~~which willshall post it on the JCP Web-~~S~~site for public download.

606 4.1.1 COMPLETE THE RI AND TCK

607 The Spec Lead Member is responsible for the completion of both the RI and the TCK. JSRs that are
608 assigned to both ECs are required to support both environments, which may require a separate RI and
609 TCK for each environment. If the RI and TCK uncover areas of the Specification that were under-
610 defined, incomplete, or ambiguous, the Spec Lead ~~will~~shall work with the Expert Group to correct
611 those deficiencies and then send a revised Specification together with a summary of the changes to
612 the PMO. -Information ~~will~~shall be posted to the JCP Web-~~S~~site. The Expert Group ~~will~~shall continue to

613 consider any further comments received during this time.

614 4.1.2 ESTABLISH A FIRST-LEVEL TCK APPEALS PROCESS

615 The Spec Lead is also responsible for establishing a clearly defined First Level TCK Appeals Process
616 to address challenges to tests contained in the TCK. This process must be described in the TCK
617 documentation. ~~Implementer~~Implementors who are not satisfied with a first level decision should
618 appeal to the EC by documenting their concerns in an email message to the PMO. The PMO will
619 circulate the request to the EC, together with any information received from the ML concerning the
620 rationale for the first-level decision, and initiate a 7-day Appeal Ballot.

621 4.1.3 UPDATE THE DELIVERABLES IN RESPONSE TO THE APPEAL BALLOT

622 Depending on the nature of the problem, a successful TCK challenge will require updating one or
623 more of the TCK, the Specification, ~~or~~and the RI. Within ~~one month~~30 days of the close of a
624 successful TCK Appeal Ballot the Maintenance Lead must update these deliverables as necessary
625 and ~~record~~report the changes ~~in the relevant sections of the Change Log. The modified Change Log,~~
626 ~~the Specification (if changed,) and URLs for the updated RI and/or TCK must be delivered to the~~
627 ~~PMO, who will publish them to the PMO when the Specification (if changed) and URLs for the updated~~
628 ~~RI and/or TCK are delivered for publication on the JCP website~~JCP Website.

629 4.2 FINAL APPROVAL BALLOT

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

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

- 636 • Include documentation covering configuration and execution of the TCK, any other information
637 needed to use the TCK (e.g. ~~Tools~~ documentation for any supplied tools.) a definition and
638 explanation of the First-level TCK Appeals Process, and the compatibility requirements that
639 must be met in addition to passing the TCK tests, ~~and any other information needed to use the~~
640 ~~TCK (e.g. ~~Tools~~ documentation).~~
- 641 • The compatibility requirements at a minimum must specify that all compatible implementations
642 a) fully implement the Spec(s) including all required interfaces and functionality. and
643 b) do not modify, subset, superset, or otherwise extend the Licensor Name Space, or include
644 any public or protected packages, classes, Java interfaces, fields or methods within the
645 Licensor Name Space other than those required/authorized by the Specification or
646 Specificationss being implemented.
- 647 These requirements must apply unless the ~~Spec~~Specification or TCK explicitly allows
648 exceptions.
- 649 • Be accompanied by a test harness, scripts or other means to automate the test execution and
650 recording of results.
- 651 • Include a TCK coverage document that will help EC members to evaluate the TCK's quality.
652 This document should include an overview of the documentation included in the TCK, a
653 description of means used to validate the quality of the TCK, the criteria used to measure TCK
654 test coverage of the Specification, test coverage numbers achieved, and a justification for the
655 adequacy of TCK quality and its test coverage.

- Provide 100% signature test coverage. These tests must ensure that all of the ~~required~~ API signatures ~~of required by~~ the ~~s~~Specification are completely implemented and that ~~no non-specified API~~ only API signatures required by the sSpecification 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 willshall stand, the PMO willshall close the JSR, and the Expert Group willshall disband. If the JSR was a revision to an existing Specification, the Spec Lead willshall resume the role of Maintenance Lead of the current Specification (see section ~~45~~).

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

4.3 FINAL RELEASE

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

The Maintenance Lead must ensure that the links to the RI and TCK remain valid ~~through the lifetime of the Specification~~. If the links become broken or non-functional, the Maintenance Lead will have 30 days following notification from the PMO ~~of the invalid links~~ to correct them. If the problems are not corrected, ~~within 30 days the PMO will initiate a JSR Withdrawal Ballot (if no Maintenance Release has been completed) or a Maintenance Release Withdrawal Ballot (if a Maintenance Release has been made) to determine whether the Maintenance Lead shall be judged to have abandoned the JSR. If the ballot passes the JSR itself or the relevant Maintenance Release will be marked as withdrawn. the Specification must reenter the Process at the Proposed Final Draft or Maintenance Review stage as appropriate, and complete the Final Release or Maintenance ReleaseR process again. NOTE: IP rights granted when the JSR made any previous Release releases are not affected by such a change in status.~~

5. MAINTENANCE

5.1 MAINTENANCE LEAD RESPONSIBILITIES

The Maintenance Lead Member is expected to assume long term ownership of the Specification, RI, and TCK while respecting the wishes of the ~~Java Community~~ CP Members with regard to evolution. A Maintenance Lead willshall therefore automatically be the Spec Lead for all significant future revisions to their Specification but willshall not have the exclusive right to decide when a significant revision will take place (see section ~~42.1.1~~).

~~The PMO will provide a publicly archived Maintenance feedback alias through which the public may submit requests for clarification, interpretation, and enhancements to the Specification. The public may submit requests for clarification, interpretation, and enhancements to the Specification by logging~~

700 | [issues through the JSR's Issue Tracker.](#)

701 | The ML ~~will~~[shall](#) consider all requests and ~~will~~[shall](#) decide how and if the Specification should be
702 | updated in response. The ML is not required to ~~do all~~[perform](#) these tasks alone, but is free to consult
703 | with the former members of the Expert Group, or any other sources, to assist with the Maintenance
704 | duties.

705 | All changes proposed by the ML ~~will~~[shall](#) make their way into the Specification ~~by~~ either [through](#) the
706 | Maintenance Release process (described below) or through a new JSR. Changes appropriate for a
707 | Maintenance Release include bug-fixes, clarifications of the Specification, changes to the
708 | implementation of existing APIs, and implementation-specific enhancements. [Changes introduced in](#)
709 | [Maintenance Releases – for example, M](#)modifications to existing APIs ~~or~~ [or](#) the addition of new APIs ~~-~~
710 | [must not break binary compatibility as defined by the Java Language Specification. Changes that](#)
711 | [would break binary compatibility should therefore be deferred to a new JSR.](#) ~~should be deferred to a~~
712 | ~~new JSR.~~

713 | 5.1.1 RELINQUISHING OWNERSHIP

714 | If the [Maintenance Lead](#) decides to discontinue his or her work ~~at~~ any time (including discontinuing
715 | maintenance activities or declining to take on the role of Spec Lead during a significant revision
716 | initiated by a [new JSR](#)) the ML [with the assistance of the PMO](#), should make a reasonable effort to
717 | locate another Member who is willing to take on the task. ~~If a replacement is identified, the PMO must~~
718 | [initiate a Transfer Ballot within one month](#)30 days to enable EC members to approve the transfer of
719 | [responsibilities. If the ballot succeeds, the new ML must assume his or her responsibilities within 30](#)
720 | [days.](#)

721 | ~~If no replacement can be found, or if the Transfer Ballot fails, then to find a replacement, sIf the ML~~
722 | ~~fail~~the PMO ~~will~~[shall](#) declare the Specification to be Dormant. ~~N and no further maintenance will~~[can](#) be
723 | carried out. ~~No further Transfer Ballots will be initiated by the PMO unless a Member volunteers as~~
724 | [ML, in which case the PMO will again have again a month 30 days to initiate a Transfer Ballot. on it](#)
725 | ~~until a new ML is identified and ownership of the Specification, RI, and TCK is transferred to the new~~
726 | ~~ML's organization (subject to a successful Transfer ballot by the EG).~~

727 | 5.2 MAINTENANCE REVIEW

728 | ~~The ML will document all proposed Specification changes in the PROPOSED section of the Change~~
729 | ~~Log and then send a request to the PMO to initiate a Maintenance Review. Before the Maintenance~~
730 | ~~Review begins, the ML must summarize comments received through the Maintenance feedback alias~~
731 | ~~and must indicate the disposition of each comment (e.g. deferred with a brief explanation, rejected~~
732 | ~~with a brief explanation, included in the Change Log proposal.) This summary will be posted along~~
733 | ~~with the Change Log on the JSR Page. The PMO will then make a public announcement and begin~~
734 | ~~the review.~~

735 | ~~The ML may choose to modify one or more of the proposed changes based on comments received~~
736 | ~~during the review.~~

737 | ~~At the close of the Maintenance Review the PMO will initiate a 7-day Maintenance Review Ballot.~~
738 | ~~During this ballot EC members should vote "yes" if they agree that the Maintenance Release should~~
739 | ~~go ahead as the Spec Lead has proposed, and "no" if they believe that one or more of the changes~~
740 | ~~proposed by the ML is inappropriate for a Maintenance Release and should be deferred to a follow-on~~
741 | ~~JSR. "No" votes must be accompanied by comments in which the offending items are identified and~~
742 | ~~the reasons for the objection are explained.~~

743 | ~~If there are any "no" votes the PMO will within two weeks initiate an Item Exception Ballot for each~~
744 | ~~change that EC members have objected to.~~

745 | ~~NOTE: there is no minimum number of "yes" votes required to move forward with the proposed~~

746 Maintenance Release, and “no” votes cannot prevent a release unless the ML is unwilling to defer
747 items subsequently disallowed in an Item Exception Ballot.

748 At the end of Maintenance Review and any subsequent Item Exception Ballots, the ML will update the
749 Specification, moving all approved revisions from the PROPOSED to the ACCEPTED section of the
750 Change Log. Items voted down in an Item Exception Ballot must be moved to the DEFERRED section
751 of the log. Other changes not incorporated into the Specification may be left in the PROPOSED
752 section or moved to the DEFERRED section at the ML's discretion.

753 The Maintenance Lead shall document all proposed Specification changes through the Issue Tracker
754 and then send a request to the PMO to initiate a Maintenance Review. This request must be
755 accompanied by an Issue List that summarizes all formal comments that have been received and that
756 indicates the disposition of each Issue. The Maintenance Lead ~~should~~ must also supply a summary of
757 the proposed Specification changes, ideally in the form of a *diff* between the proposed and the current
758 Specification. The Maintenance Lead must also provide an estimate of when the final materials
759 ~~shall~~for the Maintenance Release will be delivered ~~for the Maintenance Release~~. If no estimate is
760 provided the deadline will default to 30 days.

761 The PMO shall post the materials on the ~~JCP website~~JCP Website for public review. The Maintenance
762 Lead may choose to modify one or more of the proposed changes based on comments received
763 during the review.

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

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

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

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

782 5.3 MAINTENANCE RELEASE

783 At any time after a Maintenance Review Ballot and possible Item Exception Ballot the Spec Lead will
784 update the Specification, RI, TCK, and Change Log as necessary and submit them to the PMO for
785 publication in a Maintenance Release. After a successful Maintenance Review Ballot the Maintenance
786 Lead will update the Specification, RI, TCK, and Issue List as necessary and submit them to the PMO
787 for publication in a Maintenance Release. The PMO verifies that the necessary changes have been
788 made, and publishes the Specification, the ~~Change Log~~Issue List, and pointers to the RI and TCK on
789 the JSR Web Page.

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

792 [If the Maintenance Lead fails to deliver the final materials within the time-period specified at the](#)
793 [beginning of the Maintenance Review process the PMO shall inform the Maintenance Lead of an](#)
794 [impending Maintenance Renewal Ballot, and shall request the Maintenance Lead to prepare a public](#)
795 [statement to the EC that explains the reason for the delay and provides a new deadline. 30 days after](#)
796 [this request the PMO shall initiate a Maintenance Renewal Ballot to determine whether the deadline](#)
797 [may be extended as requested or whether the previous Maintenance Review should be rescinded and](#)
798 [the Maintenance Lead be required to go through another Maintenance Review.](#)

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

800 **6.1 SCOPE**

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

803 **6.2 MEMBERSHIP**

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

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

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

812 **6.3 EC DUTIES AND RESPONSIBILITIES**

- 813 1. Select JSRs for development within the JCP.
- 814 2. [Review and provide guidance on proposed licensing terms of proposed JSRs.](#)
- 815 3. Approve draft Specifications ~~for~~[after](#) Public Review.
- 816 4. [Ensure that publicly expressed issues/concerns with a JSR are addressed by the Expert](#)
817 [Group.](#)
- 818 5. Give final approval to completed Specifications and their associated RIs and TCKs.
- 819 6. Decide appeals of first-level TCK test challenges.
- 820 7. Review proposed maintenance revisions and possibly require some to be carried out in a new
821 JSR.
- 822 8. Approve the transfer of maintenance duties between Members.
- 823 9. Decide when JSRs that have not made sufficient progress through the Process should be
824 withdrawn.
- 825 10. Provide guidance to the PMO and JCP ~~G~~[community](#) to promote the efficient operations of the
826 organization and to guide the evolution of Java platforms and technologies. Such guidance
827 may be provided by mechanisms such as publishing white papers, reports, or comments as the
828 EC deems appropriate to express the opinions of one or both Executive Committees.
- 829 11. Members of the Executive Committee shall be dedicated to the principles of full and open
830 competition, in full compliance with all applicable laws, including all antitrust laws of the United
831 States and other nations and governmental bodies as appropriate. Violations of such laws can
832 result in criminal as well as civil penalties for individuals as well as employers, depending on
833 the jurisdiction. In particular, any discussion related to product pricing, methods or channels of
834 distribution, division of markets or allocation of customers, among other subjects, should be
835 avoided.

836 6.4 EC SELECTION PROCESS AND LENGTH OF TERM

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

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

841 6.4.1 RESIGNATION OF EC SEATS

842 EC ~~M~~members may resign their seats at any time during their term.

843 EC members who fail to remain ~~Java Community~~CP Members forfeit their EC seat.

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

849 6.4.2 ELECTION PROCESSES

850 All JCP Members are eligible to vote in ballots for Ratified and Elected Seats subject to the provision
851 that if a Member has majority-ownership of, ~~or is the employer of,~~ one or more other Members, ~~then~~
852 that group of Members ~~will~~shall collectively have ~~1~~one vote, which ~~will~~shall be cast by the person they
853 designate to be their representative for the ballot in question.

854 If the PMO has reason to believe that an organization is attempting to influence the outcome of an
855 election by instructing its Agents how to vote the PMO should take all necessary corrective actions
856 and then report the matter to the EC for approval.

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

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

863 6.4.3 SELECTION PROCESS FOR RATIFIED SEATS

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

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

874 6.4.4 SELECTION PROCESS FOR ELECTED SEATS

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

- Four weeks before the voting period the PMO ~~will~~shall post on the public JCP site a complete description of all materials ~~that will be provided to voters~~that candidates will be expected to provide (e.g. any candidate statements, position papers, ~~candidate forums~~, etc. that will be posted during the election).)
- Four weeks before the votingballot period the PMO ~~will~~shall accept nominations ~~from the Community~~ for a period of 14 days. Any Member may nominate themselves except that ~~employees~~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 votingballot period.
- The nominees who receive the most votes ~~will~~shall fill the vacant Elected Seats.
- If there is only one nominee for an Elected Seat voters ~~will~~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 ~~will~~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~~BALLOT RULES

1. All JSR ballots ~~will~~shall be conducted electronically and the results made public.
2. JSR ~~balloting periods~~ last 14 days except where noted in this document.
3. EC ~~M~~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 ~~M~~member may not vote at all.
4. Only "yes" and "no" votes count in determining the result of a JSR ballot.
5. Any vote may be accompanied by comments (which are ~~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".
6. ~~Only "yes" and "no" votes count in determining the result of a JSR ballot.~~
7. 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.
8. Ballots to approve UJSRs ~~for new~~that define the initial version of a new -Platform Edition Specifications 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.
9. ~~It is highly recommended that abstentions be accompanied by comments.~~
10. ~~"No" votes must be accompanied by an explanation of the changes (if any) that would persuade the member to change the vote to "yes". .1.54~~
11. ~~Maintenance Review ballots are advisory only, as indicated in section-~~
12. When a failed JSR ballot results in the closing of a JSR, at least ~~1-month~~30 days must pass before the JSR can be ~~reinitiated~~re-initiated.
13. 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. ~~An item listed in an Item Exception Ballot will be deferred to the next JSR if at least one-third of the EC Members cast "no" votes for that item.~~
- 14.
15. When more than one EC is voting on any JSR ballot, the ballot ~~will~~shall be approved only if each EC approves it separately.

926 IV APPENDIX A: REVISING THE JCP AND THE JSPA

927 Revisions to the Java Community Process (this document) and the Java Specification Participation
928 | Agreement ~~will~~[shall](#) be carried out using the Java Community Process with the following changes:

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