

JCP-2: Process Document

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Comments to: pmo@jcp.org

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10

11 I EXECUTIVE SUMMARY

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

18 Experience has shown that the best way to produce a technology specification is to gather a group of
 19 industry experts who have a deep understanding of the technology in question and then have a strong
 20 technical lead work with that group to create a first draft. ~~Consensus~~ ~~Agreement~~ around the form and
 21 content of the draft is then built using an iterative review process that allows an ever-widening
 22 audience to review and comment on the document. ~~This version of the JCP was developed through-~~
 23 ~~the JCP by means of JSR 348, led by Oracle and the combined Executive Committees as the Expert~~
 24 ~~Group.~~

25

26 An Executive Committee (EC) representing a cross-section of both major stakeholders and other
 27 members of the Java community is responsible for approving the passage of Specifications through
 28 the JCP's various stages and for reconciling discrepancies between Specifications and their
 29 associated test suites. There are two ECs: one to oversee the Java technologies for the
 30 desktop/server space (with responsibility for the Java SE™ and Java EE™ Specifications) and the
 31 other to oversee the Java technologies for the consumer/embedded space (with responsibility for the
 32 Java ME™ Specification). The EC's are considering merging the two bodies into a single one in the
 33 near future, so newly elected EC members should be aware that their terms may vary from what is
 34 specified in section ~~6~~5.4, "EC SELECTION PROCESS AND LENGTH OF TERM"

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

- 36 1. **INITIATION:** A Specification targeted at the desktop/server or consumer/embedded space is
 37 initiated by ~~community member(s)~~ ~~one or more~~ ~~Members~~ and approved for development by the
 38 responsible EC. A group of experts is formed to assist the Spec Lead with the development of
 39 the Specification.
- 40 2. **DRAFT RELEASES:** The Expert Group develops the Specification through an iterative
 41 process, releasing drafts for public review and comment. After the formal Public Review the EC
 42 ~~votes~~ ~~holds a ballot~~ on whether the JSR should proceed to the Final Release stage.
- 43 3. **FINAL RELEASE:** The Spec Lead submits the Specification to the PMO for publication as the
 44 Proposed Final Draft. When the RI and TCK are completed, and the RI passes the TCK, the
 45 Specification, the RI, and the TCK are submitted to the PMO, ~~who~~ ~~which~~ ~~circulates~~ them to the
 46 responsible EC for final approval.
- 47 4. **MAINTENANCE:** The Specification, Reference Implementation, and Technology Compatibility
 48 Kit are updated in response to ongoing requests for clarification, interpretation, enhancements,
 49 and revisions. The responsible EC reviews proposed changes to the Specification and
 50 indicates which can be carried out immediately and which ~~will~~ ~~shall~~ require the changes to be
 51 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 and the combined Executive Committees as 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 | ~~release. A Change Log has six sections: PROPOSED (changes not yet made to the~~
59 | ~~Specification), ACCEPTED (changes made to the Specification), DEFERRED (changes to~~
60 | ~~be considered in a new JSR), RI (changes made to the RI), TCK (changes made to the~~
61 | ~~TCK) and LICENSING (changes to the licensing terms)r~~**Change Log:** ~~An area accessible~~
62 | ~~from the JSR Page that lists all changes made to the Specification, RI, TCK, and licenses~~
63 | ~~since the previous~~

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

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

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

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

80 | **Elected Seat:** An EC seat filled by the election process described in section ~~5.3.4~~[6.4.4](#).

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

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

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

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

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

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

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

97 **First-Level TCK Appeals Process:** The process defined by the Spec Lead that allows
98 ~~implementer~~[implementors](#) of the Specification to appeal one or more tests defined by the
99 Specification's TCK.

100 |

101 ~~**Item Exception Ballot:** The EC ballot to determine whether or not to include specific~~
102 ~~change items in a Maintenance Release.~~

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

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

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

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

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

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

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

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

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

128 **JSR Approval Ballot:** The EC ballot to determine if the initial JSR submission should be
 129 approved~~The EC ballot to determine if the JSR should be approved.~~

130 **JSR Reconsideration Ballot:** The EC ballot to determine if a revised~~ed~~ion of an initial JSR
 131 submission should be approved.

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

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

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

137 **JSR Review:** A ~~four~~⁴ week period during which the public can review and comment on a
 138 proposed new JSR 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 **Maintenance Lead (ML):** The Expert responsible for maintaining the Specification.

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

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

147 **Maintenance Review:** A period of at least 30 days prior to finalization of a Maintenance
 148 Release when Members and the public consider and comment on the change the
 149 Spec~~Maintenance Lead proposes to include in the release, as identified in the associated~~
 150 Issue List.~~items listed in the PROPOSED section of the Change Log.~~

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

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

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

159 **Member:** See Agent, Java Community Process Member, Member Associate, Member
 160 Representative.

161 | **Member Associate:** An individual who is associated with a Member organization but is not
162 | an Agent of that organization.

163 | **Member Representative:** An ~~employee~~Agent of a Member company or ~~an associate of a~~
164 | Member organization who ~~has been approved by the Member to~~ represents its interests
165 | within the JCP.

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

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

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

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

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

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

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

185 | **Ratified Seat:** An EC seat filled by the ratification process described in section ~~5.3.3~~6.4.3.

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

188 | **Release:** A Final Release or a Maintenance Release

189 | **Specification:** See Java Specification.

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

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

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

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

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

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

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

III THE JAVA COMMUNITY PROCESS SM PROGRAM

1. GENERAL PROCEDURES

1.1 EXPERT GROUP TRANSPARENCY

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

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

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

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

Spec Leads should be aware of their obligations under the JSPA to license the output of their JSR on Fair, Reasonable, and Non Discriminatory terms, and to make certain patent grants. Incorporating

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.

235 | feedback provided through public email ~~aliases~~[lists](#) or forums without ensuring that the provider has
236 | signed the JSPA or an equivalent Contribution Agreement may make it impossible to meet these
237 | requirements or may expose the Spec Lead Member to legal liability.

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

244 | ~~1.1.1 Mailing Lists~~**PUBLIC COMMUNICATIONS**

245 | ~~All substantive business must be carried out on a public mailing list designated by the Spec Lead. The~~
246 | ~~purpose of this list is to keep observers aware of important issues and, minor administrative issues~~
247 | ~~that distract from substantive business should therefore be kept private. A private mailing list should~~
248 | ~~be used for minor administrative matters. Significant business includes, for example, eliminating or~~
249 | ~~adding new features to the JSR, changes to the membership of the Expert Group, modifications to the~~
250 | ~~reference implementation or the TCK, publication of the agenda, and on-going debate about JSR~~
251 | ~~specifics. Non-substantive administrative matters such as notifications of meeting schedules,~~
252 | ~~messages directing Expert Group members to particular documents or URLs, and reminders about~~
253 | ~~voting or task assignments should be excluded from the public mailing list.~~

254 | ~~If the public mailing list is writable only by Expert Group members the EG must also provide a publicly~~
255 | ~~readable and writable email list or a forum to enable feedback and comments from the public.~~

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

264 | ~~1.1.2 Issue Tracking~~**ISSUE TRACKING**

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

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

277 | In order to enable EC members to judge whether Issues have been adequately addressed, the Issue
278 | List must make a clear distinction between Issues that are still open, Issues that have been deferred,

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.

279 | and those that are closed, and must indicate the reason for any change of state.
280 | The PMO shall publish the Issue List or a pointer to it together with the other materials.
281 | EC members should review the supplied Issue List and take it into consideration when casting their
282 | ballot. If they have any reservations or concerns about a 'yes' vote, or if they wish to vote 'no,' they
283 | should accompany their ballot with comments which reference one or more Issues (perhaps logged by
284 | them) that they would like to see addressed in the future. EC members should vote 'no' if they believe
285 | that the Spec Lead or Maintenance Lead has not adequately addressed all Issues including those that
286 | have been rejected or otherwise closed by the Expert Group.

287 | **1.1.3 Response to Comments**

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

296 | **1.1.4 Changes to Licensing Terms CHANGES TO LICENSING TERMS**

297 | ~~**1.1.5 If the licensing terms for a JSR change from one release to the next, the changes must be**~~
298 | ~~**explicitly listed and explained. Changes to the licensing terms must be disclosed**~~
299 | ~~**during JSR submission (in the case of a new JSR) or in the Change Log for**~~
300 | ~~**Maintenance Releases. Subsequent changes to licensing terms during the life of the**~~
301 | ~~**JSR must be disclosed when the Specification is next submitted to the PMO for public**~~
302 | ~~**posting or review.**~~

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

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

310 | For as long as a JSR is licensed and while it is legally possible to do so the Spec Lead Member must
311 | offer the RI and TCK licenses that were published at the time of Final Release, with the exception that
312 | reasonable increases in price are permitted. At subsequent Maintenance Releases alternate RI or
313 | TCK licenses may also be offered so long as all changes are disclosed, but licensees must be free to
314 | choose the original terms if they wish. For example, existing licensees who do not wish to accept a
315 | modified license when required to adopt a newer TCK shall have the option to license the updated
316 | TCK under the previous terms. If a JSR changes hands the new Maintenance Lead Member must
317 | present a license with terms comparable to or more favorable to licensees than the existing license. ~~er-~~
318 | ~~the RI and TCK licenses that were published at the time of Final Release, with the exception that~~
319 | ~~reasonable increases in price are permitted. At subsequent Maintenance Releases alternate RI or~~
320 | ~~TCK licenses may also be offered so long as all changes are disclosed, but licensees must be free to~~
321 | ~~choose the original terms if they wish. For example, existing licensees who do not wish to accept a~~
322 | ~~modified license when required to adopt a newer TCK shall have the option to license the updated~~
323 | ~~TCK under the previous terms.~~ ~~continue to off JSR the Spec Lead must During the lifetime of the~~

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

328 **1.2 EXPERT GROUP MEMBERSHIP**

329 **1.2.1 EXPERT GROUP COMPOSITION**

330 There is no size limit on the Expert Group. The Spec Lead may add additional Experts at any time
331 provided the existing EG members are consulted. New members may be added, for example, to
332 increase diversity of opinion.

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

342 **1.2.2 WITHDRAWAL OF AN EXPERT FROM THE EXPERT GROUP**

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

354 **1.2.3 DISRUPTIVE, UNCOOPERATIVE OR UNRESPONSIVE EXPERT GROUP MEMBERS**

355 There may be rare instances when members of the Expert Group feel that one of their fellow Experts
356 is not acting in ways that advance the work of the Expert Group, and is being disruptive,
357 uncooperative or unresponsive. EG members are expected to make a reasonable effort to resolve any
358 such issues among themselves, with the active help of the Spec Lead. However, if the situation cannot
359 be resolved in a timely manner, any three members of the EG can approach the Spec Lead and
360 request that the EG member in question be excluded from further participation in the EG. If the Spec
361 Lead agrees to the request he can then do so. In the case where the EG Member in question is ~~an~~
362 Member Representative, the Spec Lead must first request that the Member replace its representative.
363 If the Member does not do so in a timely manner, the Spec Lead can exclude the Member itself from
364 further EG participation. The Spec Lead's decision as to whether or not to exclude can be appealed to
365 the EC by following the process outlined in Section ~~0-6~~1.7, "Escalation and Appeals"

366 1.2.4 UNRESPONSIVE OR INACTIVE SPEC LEAD

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

380 1.3 JSR DEADLINES

381 If a JSR does not begin Early Draft Review within ~~the first 12~~9 months ~~following the of~~ completionng of
382 its ~~initial~~ JSR Approval Ballot ~~(JSR Approval)~~, or does not begin Public Review within ~~212 months~~years
383 of ~~first submitting an Early Draft~~ JSR Approval, or ~~has~~does not ~~reach~~ achieved Final Release within
384 ~~312 months~~ years of of commencing Public Review JSR Approval, then ~~a majority of~~ the EC ~~may~~
385 should initiate a JSR Renewal Ballot unless it is agreed that there are extraordinary circumstances
386 that justify the delay. The PMO ~~will~~shall inform the Spec Lead and Expert Group of this decision and
387 will request the Spec Lead and Expert Group to prepare a public statement to the EC. The JSR
388 Renewal Ballot ~~will~~shall start 30 days after the request. If the JSR Renewal Ballot is approved by the
389 EC, then another renewal ballot cannot be initiated for that JSR for an additional year.

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

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

399 1.4 COMPATIBILITY TESTING

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

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

408 1.5 EXECUTIVE COMMITTEE DUTIES

409 1.5.1 ~~Transparency~~TRANSPARENCY

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

412 1.5.2 ~~Draft Reviews~~DRAFT REVIEWS

413 During Draft Review periods EC members are strongly encouraged to have one or more technical
414 members of their organizations review the draft and to provide feedback using the ~~in order to uncover~~
415 ~~possible duplication of features or services between the draft and other Specifications. EC members~~
416 ~~should inform the Expert Group of any such discoveries using the feedback~~ mechanism specified by
417 the Spec Lead. EC feedback is particularly important to the Expert Group, and EC members are
418 encouraged not to wait until ballot periods to raise concerns and issues.

419 1.6 PMO RESPONSE TIMES

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

423 1.7 ESCALATION AND APPEALS

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

433 2. INITIATE A NEW OR REVISED SPECIFICATION

434 2.1 INITIATE A JAVA SPECIFICATION REQUEST

435 One or more Members ~~can~~may initiate a request to develop a new Specification, or carry out a
436 significant revision to an existing one, ~~by sending a JSR to the PMO. The JSR must use the template~~
437 ~~available at the JCP Web Site~~by submitting the JSR Proposal through the JCP website, as described
438 in the Spec Lead Guide. Any JSR under consideration can be withdrawn by its submitter(s) without
439 explanation at any time prior to the completion of the JSR ~~approval vote~~Approval Ballot (see section
440 2.4.3) upon request by the submitter(s) to the PMO.

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

- 442 • the Members making the request (the submitters), the proposed Spec Lead, and the initial
- 443 members of the Expert Group.
- 444 • a description of the proposed Specification.
- 445 • the reason(s) for developing or revising it.
- 446 • the primary Platform Edition, as well as any consideration given to other Platform Editions.

- 447 • an estimated development schedule.
- 448 • any preexisting documents, technology descriptions, or implementations that might be used as
- 449 a starting point.
- 450 • a transparency plan, which outlines the tools and techniques that the Spec Lead will use,
- 451 during the creation and development of the Specification, and for communicating the progress
- 452 within the Expert Group to Community Members, EC Members and the public. The EC will
- 453 expect the Spec Lead to operate the JSR in accordance with this plan.

454 2.1.1 REVISE EXISTING SPECIFICATIONS

455 Existing Specifications, together with their associated RIs and TCKs, are maintained by a designated
456 Maintenance Lead using the processes described in section 45 of this document. Maintenance Lead
457 Members are expected to assume long term ownership of the Specification, RI, and TCK while
458 respecting the wishes of the Java Community Members with regard to evolution. Maintenance Leads
459 willshall therefore be the Spec Leads for all significant revisions to their Specifications, but they
460 willshall not have the exclusive right to decide when a significant revision will take place. That willshall
461 be decided by the EC in response to a revision JSR that can be initiated by any Java Community
462 Member. Submitter(s) should make a reasonable effort to get some of the members of the previous
463 Expert Group to join the revision effort.

464 2.1.2 PROTECT THE INSTALLED BASE AND GUARD AGAINST FRAGMENTATION

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

470 In order to guard against fragmentation, new Platform Edition Specifications willmust not substantially
471 duplicate existing Platform Editions or Profiles.

472 2.1.3 PROFILES AND API SPECIFICATIONS TARGET CURRENT PLATFORM EDITIONS

473 All new or revised Specifications must be compatible with the most recent versions of the targeted
474 Platform Edition Specifications. In order to achieve this, ~~all UJSRs to define new Profile Specifications~~
475 ~~or revise existing Profile Specifications must reference the latest version of the Platform Edition~~
476 ~~Specification they are based upon.~~ all UJSRs to define new Profile Specifications or revise existing
477 Profile Specifications must reference either the most recent Release version of the Platform Edition
478 Specification they are based upon or a newer version of that Specification that is under development
479 via an active UJSR.

480 2.1.4 PLATFORM INCLUSION

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

488 Technologies may be incorporated into a Profile or Platform Edition after having been initially delivered
489 standalone. A JSR for a new version of an API that proposes to become part of a Profile or Platform
490 Edition and is considering discontinuing stand-alone availability must state the rationale for this

491 change. The public must be informed of the intention to discontinue the availability of the standalone
492 RI and TCK one ~~release~~[JSR submission](#) in advance.

493 2.2 JSR REVIEW

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

501 2.2.1 DISCLOSURE OF LICENSING TERMS ~~FOR THE RI AND TCK~~

502 The Spec Lead Member is responsible for developing the Reference Implementation and Technology
503 Compatibility Kit and for licensing them as described in the JSPA. The Spec Lead Member must
504 provide the EC with complete copies of the proposed [Specification](#), RI and TCK licenses no later than
505 the start of JSR Review. The licenses ~~will~~[shall](#) be published on the public JSR page. EC members
506 should provide feedback on the terms as an indication of how the community as a whole might react to
507 the terms. If the EC ~~consensus~~[Members believe is](#) that the proposed licensing terms are not
508 compatible with the licensing guidelines established for use within the JCP, then balloting on the
509 proposed JSR ~~will~~[shall](#) be delayed until Oracle legal provides an opinion on the matter. The opinion of
510 Oracle legal ~~will~~[shall](#) be the final decision on the matter.

511 2.3 JSR APPROVAL BALLOT

512 After the JSR Review, EC members ~~will~~[shall](#) review the JSR and any comments received, and cast
513 their ballot ~~as specified in Section 5 below~~ to decide if the JSR should be approved.

514 If the JSR Approval Ballot fails, the PMO ~~will~~[shall](#) send all EC comments to the JSR submitter(s) who
515 may revise the JSR and resubmit it within 14 days. If a revised JSR is not received in that time, the
516 original EC decision ~~will~~[shall](#) stand and the JSR ~~will~~[shall](#) be closed. If a revised JSR is received, the
517 PMO ~~will~~[shall](#) post it to the JSR Page, announce the revised JSR to the public, and send it to all EC
518 members for a JSR Reconsideration Ballot. If that ballot fails, the JSR ~~will~~[shall](#) be closed.

519 2.4 FORM THE EXPERT GROUP

520 ~~When a JSR is approved the PMO instructs the identified Spec Lead to form the Expert Group. Within~~
521 ~~14 days of a JSR being approved, the PMO instructs the identified Spec Lead to form the Expert~~
522 ~~Group.~~ If the Member contributing the Spec Lead withdraws from the Community before the JSR is
523 approved, the PMO ~~will~~[shall](#) request the preliminary Expert Group to choose a replacement from
524 among themselves who is willing to take on the duties defined in this document. ~~There is no size limit~~
525 ~~on the Expert Group. The Spec Lead may add additional Experts at any time provided the existing EG~~
526 ~~members are consulted. New members may be added, for example, to increase diversity of opinion.~~

527 ~~Any JCP Member or Member Representative can request to join an Expert Group at any time by~~
528 ~~sending an email to the Spec Lead of the EG. The request, together with the Spec Lead's official~~
529 ~~response, substantive deliberations within the EG about this matter, and any other official decision~~
530 ~~related to EG composition, including decisions to remove or replace EG members, must be made~~
531 ~~public via the EG's public alias.~~

532

533 3. DRAFT RELEASES

534 3.1 WRITE THE FIRST DRAFT OF THE SPECIFICATION

535 The Expert Group should begin work by considering the requirements set forth in the JSR, any
536 contributed documents or technology descriptions, comments received during JSR Review and, if this
537 is a revision of an existing Specification, the [Change-Log/Issue List](#) kept by the Maintenance Lead
538 (see section 45). Additional input can be obtained from discussions with other Members, industry
539 groups, software developers, end-users, and academics. The goal is to define requirements and then
540 write a draft Specification suitable for review by the [G](#)community and the public.

541 When the Expert Group decides that the first draft is ready for review, the Spec Lead [willshall](#) send the
542 draft, along with any additional files required for review, to the PMO. The Spec Lead should also
543 suggest the length of the Early Draft Review period if the Expert Group feels it should go beyond the
544 minimum 30 days.

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

547 3.2 EARLY DRAFT REVIEW

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

556 3.2.1 UPDATING THE DRAFT DURING EARLY DRAFT REVIEW

557 If the Expert Group makes major revisions to the draft during Early Draft Review, the Spec Lead
558 should send the revised draft, along with a synopsis of the changes, to the PMO, [who/which shall](#)
559 publish these online and make them available for download by the public.

560 After the Early Draft Review period has ended, the Expert Group can make any additional changes to
561 the draft it deems necessary in response to comments before submitting the draft to the PMO for
562 [Public Review](#)[the next review](#).

563 3.3 PUBLIC REVIEW

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

566 The Spec Lead is responsible for ensuring that all comments are read and considered. If those
567 comments result in revisions to the draft, and those revisions result in major changes (in the opinion of
568 the Expert Group), then the Spec Lead must send an updated draft (with a summary of the changes)
569 to the PMO before the review period ends. The PMO [willshall](#) post the new draft and the change
570 summary on the JCP Web Site and [willshall](#) notify the public that the new draft is available.

571 3.4 PUBLIC DRAFT SPECIFICATION APPROVAL BALLOT

572 The Public Draft Specification Approval Ballot starts when the Public Review closes. At the close of

573 | balloting, all comments submitted by EC members with their ballots ~~will~~shall be circulated to the Expert
574 | Group by the PMO.

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

584 | 4. FINAL RELEASE

585 | 4.1 PROPOSED FINAL DRAFT

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

590 | 4.1.1 COMPLETE THE RI AND TCK

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

598 | 4.1.2 ESTABLISH A FIRST-LEVEL TCK APPEALS PROCESS

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

605 | 4.1.3 UPDATE THE DELIVERABLES IN RESPONSE TO THE APPEAL BALLOT

606 | Depending on the nature of the problem, a successful TCK challenge will require updating one or
607 | more of the TCK, the Specification, or the RI. Within ~~one month~~30 days of the close of a successful
608 | TCK Appeal Ballot the Maintenance Lead must update these deliverables as necessary and ~~record-~~
609 | ~~report~~ the changes ~~will publish them who in the relevant sections of the Change Log. The modified-~~
610 | ~~Change Log, the Specification (if changed,) and URLs for the updated RI and/or TCK must be-~~
611 | ~~delivered to the PMO, to the PMO when the Specification (if changed) and URLs for the updated RI~~
612 | ~~and/or TCK are delivered for publication~~ on the JCP website.

613 4.2 FINAL APPROVAL BALLOT

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

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

- 620 • Include documentation covering configuration and execution of the TCK, any other information
621 needed to use the TCK (e.g. ~~Tools~~ documentation for any supplied tools.) a definition and
622 explanation of the First-level TCK Appeals Process, and the compatibility requirements that
623 must be met in addition to passing the TCK tests, ~~and any other information needed to use the~~
624 ~~TCK (e.g. ~~Tools~~ documentation).~~
- 625 • The compatibility requirements at a minimum must specify that all compatible implementations
626 a) fully implement the Spec(s) including all required interfaces and functionality, and
627 b) do not modify, subset, superset, or otherwise extend the Licensor Name Space, or include
628 any public or protected packages, classes, Java interfaces, fields or methods within the
629 Licensor Name Space other than those required/authorized by the Spec or Specs being
630 implemented.
631 These requirements must apply unless the Spec or TCK explicitly allows exceptions.
- 632 • Be accompanied by a test harness, scripts or other means to automate the test execution and
633 recording of results.
- 634 • Include a TCK coverage document that will help EC members to evaluate the TCK's quality.
635 This document should include an overview of the documentation included in the TCK, a
636 description of means used to validate the quality of the TCK, the criteria used to measure TCK
637 test coverage of the Specification, test coverage numbers achieved, and a justification for the
638 adequacy of TCK quality and its test coverage.
- 639 • Provide 100% signature test coverage. These tests must ensure that all of the ~~required~~ API
640 signatures ~~of~~required by the spec are completely implemented and that ~~no non-specified~~
641 ~~APIs~~only API signatures required by the spec are included in the JSR's namespace.

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

644 If no responses are received within 30 days the original decision of the EC ~~will~~shall stand, the PMO
645 ~~will~~shall close the JSR, and the Expert Group ~~will~~shall disband. If the JSR was a revision to an existing
646 Specification, the Spec Lead ~~will~~shall resume the role of Maintenance Lead of the current
647 Specification (see section 4.5).

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

653 4.3 FINAL RELEASE

654 Within 14 days of a successful Final Approval Ballot or Reconsideration Ballot, the PMO will publish on
655 the JCP website the Specification and links to information on how to obtain the RI and TCK and will
656 announce the availability of these materials to both Members and the public. The published TCK

657 information must include a means for any interested party to obtain a copy of the TCK documentation
658 at no charge. Upon Final Release, the Expert Group will have completed its work and disbands. The
659 Spec Lead will typically be the Maintenance Lead and may call upon Expert Group members and
660 others for aid in that role.

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

672 5. MAINTENANCE

673 5.1 MAINTENANCE LEAD RESPONSIBILITIES

674 The Maintenance Lead Member is expected to assume long term ownership of the Specification, RI,
675 and TCK while respecting the wishes of the Java Community Members with regard to evolution. A
676 Maintenance Lead willshall therefore automatically be the Spec Lead for all significant future revisions
677 to their Specification but willshall not have the exclusive right to decide when a significant revision will
678 take place (see section 4.2.1.1).

679 ~~The PMO will provide a publicly archived Maintenance feedback alias through which the public may~~
680 ~~submit requests for clarification, interpretation, and enhancements to the Specification. The public may~~
681 submit requests for clarification, interpretation, and enhancements to the Specification by logging
682 issues through the JSR's Issue Tracker.

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

686 All changes proposed by the ML willshall make their way into the Specification by either the
687 Maintenance Release process (described below) or through a new JSR. Changes appropriate for a
688 Maintenance Release include bug-fixes, clarifications of the Specification, changes to the
689 implementation of existing APIs, and implementation-specific enhancements. Changes introduced in
690 Maintenance Releases – for example, M ~~modifications to existing APIs~~ ~~or~~ or the addition of new APIs –
691 must not break binary compatibility as defined by the Java Language Specification, and should be
692 deferred to a new JSR. ~~should be deferred to a new JSR.~~

693 5.1.1 RELINQUISHING OWNERSHIP

694 If the ML decides to discontinue his or her work ~~at~~ at any time (including discontinuing maintenance
695 activities or declining to take on the role of Spec Lead during a significant revision initiated by a JSR)
696 the ML, with the assistance of the PMO, should make a reasonable effort to locate another Member
697 who is willing to take on the task. If a replacement is identified, the PMO must initiate a Transfer Ballot
698 within ~~one month~~30 days to enable EC members to approve the transfer of responsibilities. If the ballot
699 succeeds, the new ML must assume his or her responsibilities within 30 days. If no replacement can
700 be found, or if the Transfer Ballot fails, then ~~If the ML fails to find a replacement,~~ the PMO willshall
701 declare the Specification to be Dormant. ~~N and no further maintenance~~ willcan be carried out. ~~No~~

702 further Transfer Ballots will be initiated by the PMO unless a Member volunteers as ML, in which case
703 the PMO will again have again a month 30 days to initiate a Transfer Ballot. on it until a new ML is-
704 identified and ownership of the Specification, RI, and TCK is transferred to the new ML's organization-
705 (subject to a successful Transfer ballot by the EG).-

706 **5.2 MAINTENANCE REVIEW** ~~are identified and the reasons for the objection-~~ 707 ~~are explained.~~

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

710 ~~NOTE: there is no minimum number of "yes" votes required to move forward with the proposed~~
711 ~~Maintenance Release, and "no" votes cannot prevent a release unless the ML is unwilling to defer~~
712 ~~items subsequently disallowed in an Item Exception Ballot.~~

713 ~~At the end of Maintenance Review and any subsequent Item Exception Ballots, the ML will update the~~
714 ~~Specification, moving all approved revisions from the PROPOSED to the ACCEPTED section of the~~
715 ~~Change Log. Items voted down in an Item Exception Ballot must be moved to the DEFERRED section~~
716 ~~of the log. Other changes not incorporated into the Specification may be left in the PROPOSED~~
717 ~~section or moved to the DEFERRED section at the ML's discretion. items and must indicate the~~
718 ~~disposition of each comment (e.g. deferred with a brief explanation, rejected with a brief explanation,~~
719 ~~included in the Change Log proposal.) This summary will be posted along with the Change Log on the~~
720 ~~JSR Page. The PMO will then make a public announcement and begin the review.~~

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

723 ~~At the close of the Maintenance Review the PMO will initiate a 7-day Maintenance Review Ballot.~~
724 ~~During this ballot EG members should vote "yes" if they agree that the Maintenance Release should~~
725 ~~go ahead as the Spec Lead has proposed, and "no" if they believe that one or more of the changes~~
726 ~~proposed by the ML is inappropriate for a Maintenance Release and should be deferred to a follow-on~~
727 ~~JSR. "No" votes must be accompanied by comments in which the offending Maintenance feedback~~
728 ~~aliasThe ML will document all proposed Specification changes in the PROPOSED section of the~~
729 ~~Change Log and then send a request to the PMO to initiate a Maintenance Review. Before the~~
730 ~~Maintenance Review begins, the ML must summarize comments received through the-~~

731 |
732 The Maintenance Lead shall document all proposed Specification changes through the Issue Tracker
733 and then send a request to the PMO to initiate a Maintenance Review. This request must be
734 accompanied by an Issue List that summarizes all formal comments that have been received and that
735 indicates the disposition of each Issue. The Maintenance Lead ~~should~~ must also supply a summary of
736 the proposed Specification changes, ideally in the form of a *diff* between the proposed and the current
737 Specification. The Maintenance Lead must also provide an estimate of when the final materials shall
738 be delivered for the Maintenance Release. If no estimate is provided the deadline will default to 30
739 days.

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

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

- 747 |
- One or more of the changes proposed by the Maintenance Lead is inappropriate for a

Maintenance Release and should be deferred to a follow-on JSR

- An issue that was referenced in a "conditional yes" vote during an earlier development stage has not been addressed.
- The proposed Maintenance Release date is too far in the future. (EC members should bear in mind that many Maintenance Releases need to be synchronized with updates to a Platform, and that a Maintenance Review may therefore need to be carried out significantly in advance of the proposed Platform release.)
- Unreasonable changes have been made to the RI or TCK licensing terms.

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

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

5.3 MAINTENANCE RELEASE

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

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

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

6. EXECUTIVE COMMITTEE POLICIES AND PROCEDURES

6.1 SCOPE

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

6.2 MEMBERSHIP

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

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

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

791 6.3 EC DUTIES AND RESPONSIBILITIES

- 792 1. Select JSRs for development within the JCP.
- 793 2. [Review and provide guidance on proposed licensing terms of proposed JSRs.](#)
- 794 3. Approve draft Specifications ~~for~~[after](#) Public Review.
- 795 4. [Ensure that publicly expressed issues/concerns with a JSR are addressed by the Expert](#)
796 [Group.](#)
- 797 5. Give final approval to completed Specifications and their associated RIs and TCKs.
- 798 6. Decide appeals of first-level TCK test challenges.
- 799 7. Review proposed maintenance revisions and possibly require some to be carried out in a new
800 JSR.
- 801 8. Approve the transfer of maintenance duties between Members.
- 802 9. Decide when JSRs that have not made sufficient progress through the Process should be
803 withdrawn.
- 804 10. Provide guidance to the PMO and JCP Community to promote the efficient operations of the
805 organization and to guide the evolution of Java platforms and technologies. Such guidance
806 may be provided by mechanisms such as publishing white papers, reports, or comments as the
807 EC deems appropriate to express the opinions of one or both Executive Committees.
- 808 11. Members of the Executive Committee shall be dedicated to the principles of full and open
809 competition, in full compliance with all applicable laws, including all antitrust laws of the United
810 States and other nations and governmental bodies as appropriate. Violations of such laws can
811 result in criminal as well as civil penalties for individuals as well as employers, depending on
812 the jurisdiction. In particular, any discussion related to product pricing, methods or channels of
813 distribution, division of markets or allocation of customers, among other subjects, should be
814 avoided.

815 6.4 EC SELECTION PROCESS AND LENGTH OF TERM

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

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

820 6.4.1 RESIGNATION OF EC SEATS

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

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

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

828 6.4.2 ELECTION PROCESSES

829 All JCP Members are eligible to vote in ballots for Ratified and Elected Seats subject to the provision
830 that if a Member has majority-ownership of, ~~or is the employer of,~~ one or more other Members, [or if](#)
831 [one or more Members are Agents of another Member,](#) then that group of Members ~~will~~[shall](#) collectively

832 | have ~~4~~one vote, which ~~will~~shall be cast by the person they designate to be their representative for the
833 | ballot in question.

834 | Annual elections for Ratified and Elected Seats ~~will~~shall be held simultaneously. Voting in these
835 | elections will start in the third week of October.

836 |
837 | In the interests of promoting transparency and participation in the election process the PMO shall
838 | organize teleconferences at which the Members have an opportunity to hear from and to ask
839 | questions of the candidates. If a suitable venue such as JavaOne is available the PMO shall also
840 | organize a public meeting with the same purpose.

841 | **6.4.3 SELECTION PROCESS FOR RATIFIED SEATS**

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

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

852 | **6.4.4 SELECTION PROCESS FOR ELECTED SEATS**

853 | Members are selected for the Elected Seats using an open election process that is carried out as
854 | follows:

- 855 | • Four weeks before the voting period the PMO ~~will~~shall post on the public JCP site a complete
856 | description of all materials that will be provided to voters (e.g. any candidate statements,
857 | position papers, candidate forums, etc. that will be posted during the election).
- 858 | • Four weeks before the ~~voting~~ballot period the PMO ~~will~~shall accept nominations from the
859 | Community for a period of 14 days. Any Member may nominate themselves except that
860 | ~~employees~~Agents of JCP Members cannot run for Elected Seats as individuals and the PMO
861 | shall reject such nominations.
- 862 | • Eligible Members may vote for as many nominees as there are vacant Elected Seats over a
863 | 14-day ~~voting~~ballot period.
- 864 | • The nominees who receive the most votes ~~will~~shall fill the vacant Elected Seats.
- 865 | • If there is only one nominee for an Elected Seat voters ~~will~~shall be given the opportunity to vote
866 | “yes” or “no” for that candidate. To be elected, the candidate must obtain a simple majority.
- 867 | • If there is no candidate for an elected seat, the ECs may choose to hold this seat open until the
868 | next election.
- 869 | • Ties ~~will~~shall be decided by following the procedure defined in <http://www.ietf.org/rfc/rfc2777.txt>
870 | and using the calculator provided by W3C in <http://www.w3.org/2001/05/rfc2777>.

871 | **7. EXECUTIVE COMMITTEE JSR VOTING RULES**

- 872 | 1. All JSR ballots ~~will~~shall be conducted electronically and the results made public.
- 873 | 2. JSR balloting periods last 14 days except where noted in this document.
- 874 | 3. EC Members may cast three types of votes: “yes”, “no” and “abstain”. Explicit abstentions are
875 | strongly discouraged. In the extreme and most undesirable case, an EC Member may not

vote at all.

4. Any vote may be accompanied by comments. When comments include specific suggestions for change these should be logged in the Issue Tracker to ensure that they are addressed. "No" votes must be accompanied by references to the Issue Tracker items (if any) that if resolved would persuade the member to change the vote to "yes".
5. Only "yes" and "no" votes count in determining the result of a JSR ballot.
6. JSR ballots are approved if (a) a majority of the votes cast are "yes" votes, and (b) a minimum of 5 "yes" votes are cast. Ballots are otherwise rejected.
7. Ballots to approve UJSRs ~~newfor~~ 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.
8. ~~Maintenance Review ballots are advisory only, as indicated in section 4.1.5 would persuade the member to change the vote to "yes". an explanation of the changes (if any) that "No" votes must be accompanied by~~
- 9.
10. It is highly recommended that abstentions be accompanied by comments.
11. 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.
12. 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.
13. ~~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. When more than one EC is voting on any JSR ballot, the ballot ~~will~~ shall be approved only if each EC approves it separately.

IV APPENDIX A: REVISING THE JCP AND THE JSPA

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

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