

1 **JCP Process Document**

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## 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-based 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 a strong technical lead work with that group to create a first draft. Agreement around 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.

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 Specifications through the JCP's various stages and for reconciling discrepancies between Specifications 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:

1. **INITIATION:** A Specification targeted at the desktop/server or consumer/embedded space is initiated by 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.
2. **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 holds a ballot on whether the JSR should proceed to the Final Release stage.
3. **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, which circulates them to the responsible EC for final approval.
4. **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 shall require the changes to be implemented in a new JSR.

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

## I DEFINITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Issue Tracker:** A mechanism to allow issues (problems, tasks, comments, or requests for change) to be recorded and tracked by priority, status, owner, or other criteria. The Issue Tracker should permit issues to be identified by states such as open, resolved, and closed

and should support the assignment of resolution types such as deferred (postponed to a follow-on release,) fixed (implemented,) challenged (no satisfactory resolution,) and rejected (deemed inappropriate or out of scope.)

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

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

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

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

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

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

**JSR Approval Ballot:** The EC ballot to determine if the JSR should be approved.

**JSR Reconsideration Ballot:** The EC ballot to determine if a revised JSR should be approved.

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

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

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

**JSR Review:** A 4 week period during which the public can review and comment on a new JSR.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Spec Lead Member:** The individual JCP member who is a Spec Lead, or otherwise the company or organization that employs, and is represented by, 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.<sup>1</sup>

**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](#).

## II THE JAVA COMMUNITY PROCESS<sup>SM</sup> 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 to advance only when there is general agreement among its members, or by voting on issues 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.

In the initial JSR submission the Spec Lead must specify the transparency mechanisms (for example, the communication mechanisms and Issue Tracker) that the Expert Group intends to adopt, and must provide the URLs for accessing the chosen collaboration tools. The PMO 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, which 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.

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

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

199 The use of *Confidential materials* (as defined in the JSPA) by Expert Groups limits transparency, is  
200 strongly discouraged, and will be prohibited in a future version of the Process. If the Spec Lead  
201 intends to permit the use of *Confidential materials* (such as emails, drafts or submissions marked as  
202 *Confidential*), this must be specified in the initial Java Specification Request. Expert Groups may also  
203 choose to keep information private by means other than marking it as Confidential (for example, by not  
204 publishing it on a publicly available site).<sup>2</sup>

## 205 **1.1.1 PUBLIC COMMUNICATIONS**

206

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

## 215 **1.1.2 ISSUE TRACKING**

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

221 Whenever a Spec Lead or a Maintenance Lead submits materials to the PMO for review or ballot they  
222 must also provide an Issue List indicating the disposition of all of the Issues that have been logged  
223 against the JSR. It is permissible for Issues logged late in the review cycle to be deferred for later  
224 consideration, and for Issues that are blatantly off-topic or that appear to have been submitted  
225 maliciously to be ignored.

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

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

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

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

### 236 **1.1.3 CHANGES TO LICENSING TERMS**

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

242 During the lifetime of the JSR the Spec Lead must continue to offer the RI and TCK licenses that were  
243 published at the time of Final Release, with the exception that reasonable increases in price are  
244 permitted. At subsequent Maintenance Releases alternate RI or TCK licenses may also be offered so  
245 long as all changes are disclosed, but licensees must be free to choose the original terms if they wish.  
246 For example, existing licensees who do not wish to accept a modified license when required to adopt  
247 a newer TCK shall have the option to license the updated TCK under the previous terms.

248 When a newer version of a technology is created through a follow-on JSR the Specification, RI, and  
249 TCK license terms for the new JSR may differ from those offered for the previous JSR, but any such  
250 changes must be disclosed during JSR submission. The original terms for the previous JSR must be  
251 offered for the lifetime of that JSR.

## 252 **1.2 EXPERT GROUP MEMBERSHIP**

### 253 **1.2.1 EXPERT GROUP COMPOSITION**

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

257 Any JCP Member, Member Representative or Member Associate may request to join an Expert Group  
258 at any time by submitting their nomination via the online form provided on the JSR Page. Member  
259 Associates, since they are not covered by the JSPA of their organization, must sign the JSPA in their  
260 own right before they can be permitted to join an Expert Group. Details of such requests, together with  
261 the Spec Lead's official response, substantive deliberations within the EG about the matter, and any  
262 other official decisions related to EG membership must be published through the EG's public  
263 communication channel.

### 264 **1.2.2 WITHDRAWAL OF AN EXPERT FROM THE EXPERT GROUP**

265 An Expert may withdraw from the Expert Group at any time. If the withdrawing Expert is the Spec  
266 Lead, the Expert Group, with the help of the PMO, should approach the Member who originally  
267 contributed the Expert, if any, and request them to provide a suitable replacement; if no such  
268 replacement is forthcoming, the Expert Group should choose one of its members as the new Spec  
269 Lead. If the withdrawing Expert is not the Spec Lead, the Spec Lead should approach the Member  
270 who originally contributed the Expert, if any, and work with that organization to find a suitable  
271 replacement. If no replacement is offered or is not otherwise available, the Spec Lead may recruit a  
272 replacement from amongst other Members.

### 273 **1.2.3 DISRUPTIVE, UNCOOPERATIVE OR UNRESPONSIVE EXPERT GROUP MEMBERS**

274 There may be rare instances when members of the Expert Group feel that one of their fellow Experts  
275 is not acting in ways that advance the work of the Expert Group, and is being disruptive,  
276 uncooperative or unresponsive. EG members are expected to make a reasonable effort to resolve any  
277 such issues among themselves, with the active help of the Spec Lead. However, if the situation cannot  
278 be resolved in a timely manner, any three members of the EG can approach the Spec Lead and



request that the EG member in question be excluded from further participation in the EG. If the Spec Lead agrees to the request he can then do so. In the case where the EG Member in question is a Member Representative, the Spec Lead must first request that the Member replace its representative. If the Member does not do so in a timely manner, the Spec Lead can exclude the Member itself from further EG participation. The Spec Lead's decision as to whether or not to exclude can be appealed to the EC by following the process outlined in Section 1.7, "Escalation and Appeals"

#### **1.2.4 UNRESPONSIVE OR INACTIVE SPEC LEAD**

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

### **1.3 JSR DEADLINES**

If a JSR does not begin Early Draft Review within the first 12 months following the completion of its initial JSR Approval Ballot (JSR Approval), or does not begin Public Review within 2 years of JSR Approval, or has not achieved Final Release within 3 years of JSR Approval, then the EC should initiate a JSR Renewal Ballot unless it is agreed that there are extraordinary circumstances that justify the delay. The PMO shall inform the Spec Lead and Expert Group of this decision and will request the Spec Lead and Expert Group to prepare a public statement to the EC. The JSR Renewal Ballot shall start 30 days after the request. If the JSR Renewal Ballot is approved by the EC, then another renewal ballot cannot be initiated for that JSR for an additional year.

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

### **1.4 COMPATIBILITY TESTING**

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

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

## 324 1.5 EXECUTIVE COMMITTEE DUTIES

### 325 1.5.1 TRANSPARENCY

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

### 328 1.5.2 DRAFT REVIEWS

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

## 335 1.6 PMO RESPONSE TIMES

336 Materials to be posted on the JCP website for review, comment, or any other official EG or EC  
337 business should be submitted to the PMO, which shall post them on the website and announce their  
338 availability to Members and the public within seven days of receipt.

## 339 1.7 ESCALATION AND APPEALS

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

## 349 2. INITIATE A NEW OR REVISED SPECIFICATION

### 350 2.1 INITIATE A JAVA SPECIFICATION REQUEST

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

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

- 357 • the Members making the request (the submitters), the proposed Spec Lead, and the initial  
358 members of the Expert Group.
- 359 • a description of the proposed Specification.
- 360 • the reason(s) for developing or revising it.
- 361 • the primary Platform Edition, as well as any consideration given to other Platform Editions.
- 362 • an estimated development schedule.

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

### **2.1.1 REVISE EXISTING SPECIFICATIONS**

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

### **2.1.2 PROTECT THE INSTALLED BASE AND GUARD AGAINST FRAGMENTATION**

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

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

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

All new or revised Specifications must be compatible with the most recent versions of the targeted Platform Edition Specifications. In order to achieve this, all UJSRs to define new Profile Specifications or revise existing Profile Specifications must reference the latest version of the Platform Edition Specification they are based upon.

### **2.1.4 PLATFORM INCLUSION**

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

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

## 405 **2.2 JSR REVIEW**

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

### 413 **2.2.1 DISCLOSURE OF LICENSING TERMS**

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

## 423 **2.3 JSR APPROVAL BALLOT**

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

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

## 431 **2.4 FORM THE EXPERT GROUP**

432 Within 14 days of a JSR being approved, the PMO instructs the identified Spec Lead to form the  
433 Expert Group. If the Member contributing the Spec Lead withdraws from the Community before the  
434 JSR is approved, the PMO shall request the preliminary Expert Group to choose a replacement from  
435 among themselves who is willing to take on the duties defined in this document.

436

## 437 **3. DRAFT RELEASES**

### 438 **3.1 WRITE THE FIRST DRAFT OF THE SPECIFICATION**

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

445 When the Expert Group decides that the first draft is ready for review, the Spec Lead shall send the

446 draft, along with any additional files required for review, to the PMO. The Spec Lead should also  
447 suggest the length of the Early Draft Review period if the Expert Group feels it should go beyond the  
448 minimum 30 days.

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

## 451 **3.2 EARLY DRAFT REVIEW**

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

### 460 **3.2.1 UPDATING THE DRAFT DURING EARLY DRAFT REVIEW**

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

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

## 467 **3.3 PUBLIC REVIEW**

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

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

## 475 **3.4 PUBLIC DRAFT SPECIFICATION APPROVAL BALLOT**

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

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

## 487 **4. FINAL RELEASE**

### 488 **4.1 PROPOSED FINAL DRAFT**

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

#### 493 **4.1.1 COMPLETE THE RI AND TCK**

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

#### 501 **4.1.2 ESTABLISH A FIRST-LEVEL TCK APPEALS PROCESS**

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

#### 508 **4.1.3 UPDATE THE DELIVERABLES IN RESPONSE TO THE APPEAL BALLOT**

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

### 514 **4.2 FINAL APPROVAL BALLOT**

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

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

- 521 • Include documentation covering configuration and execution of the TCK, any other information  
522 needed to use the TCK (e.g. Tools documentation,) a definition and explanation of the First-  
523 level TCK Appeals Process, the compatibility requirements that must be met in addition to  
524 passing the TCK tests
- 525 • The compatibility requirements at a minimum must specify that all compatible implementations  
526 a) fully implement the Spec(s) including all required interfaces and functionality, and

527           b) do not modify, subset, superset, or otherwise extend the Licensor Name Space, or include  
528           any public or protected packages, classes, Java interfaces, fields or methods within the  
529           Licensor Name Space other than those required/authorized by the Spec or Specs being  
530           implemented.

531           These requirements must apply unless the Spec or TCK explicitly allows exceptions.

532           • Be accompanied by a test harness, scripts or other means to automate the test execution and  
533           recording of results.

534           • Include a TCK coverage document that will help EC members to evaluate the TCK's quality.  
535           This document should include an overview of the documentation included in the TCK, a  
536           description of means used to validate the quality of the TCK, the criteria used to measure TCK  
537           test coverage of the Specification, test coverage numbers achieved, and a justification for the  
538           adequacy of TCK quality and its test coverage.

539           • Provide 100% signature test coverage. These tests must ensure that all of the API signatures  
540           required by the spec are completely implemented and that only API signatures required by the  
541           spec are included in the JSR's namespace.

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

544           If no responses are received within 30 days the original decision of the EC shall stand, the PMO shall  
545           close the JSR, and the Expert Group shall disband. If the JSR was a revision to an existing  
546           Specification, the Spec Lead shall resume the role of Maintenance Lead of the current Specification  
547           (see section 5).

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

## 553   **4.3 FINAL RELEASE**

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

561           The Maintenance Lead must ensure that the links to the RI and TCK remain valid through the lifetime  
562           of the Specification. If the links become broken or non-functional, the Maintenance Lead will have 30  
563           days following notification from the PMO of the invalid links to correct them. If the problems are not  
564           corrected within 30 days, the Specification must reenter the Process at the Proposed Final Draft or  
565           Maintenance Review stage as appropriate, and complete the Release process again. NOTE: IP rights  
566           granted when the JSR made any previous Releases are not affected by such a change in status.

## 567 **5. MAINTENANCE**

### 568 **5.1 MAINTENANCE LEAD RESPONSIBILITIES**

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

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

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

579 All changes proposed by the ML shall make their way into the Specification by either the Maintenance  
580 Release process (described below) or through a new JSR. Changes appropriate for a Maintenance  
581 Release include bug-fixes, clarifications of the Specification, changes to the implementation of existing  
582 APIs, and implementation-specific enhancements. Modifications to existing APIs or the addition of new  
583 APIs should be deferred to a new JSR.

#### 584 **5.1.1 RELINQUISHING OWNERSHIP**

585 If the ML decides to discontinue his or her work at any time (including discontinuing maintenance  
586 activities or declining to take on the role of Spec Lead during a significant revision initiated by a JSR)  
587 the ML, with the assistance of the PMO, should make a reasonable effort to locate another Member  
588 who is willing to take on the task. If a replacement is identified, the PMO must initiate a Transfer Ballot  
589 within one month to enable EC members to approve the transfer of responsibilities. If the ballot  
590 succeeds, the new ML must assume his or her responsibilities within 30 days. If no replacement can  
591 be found, or if the Transfer Ballot fails, then the PMO shall declare the Specification to be Dormant  
592 and no further maintenance can be carried out. No further Transfer Ballots will be initiated by the PMO  
593 unless a Member volunteers as ML, in which case the PMO will have again a month to initiate a  
594 Transfer Ballot.

### 595 **5.2 MAINTENANCE REVIEW**

596

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

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

608 At the close of the Maintenance Review the PMO shall initiate a 7-day Maintenance Review Ballot.  
609 During this ballot EC members should vote 'yes' if they agree that the Maintenance Release should  
610 proceed as the Spec Lead has proposed, and 'no' if they have objections to the proposed release on



611 one of the following grounds:

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

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

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

625

## 626 **5.3 MAINTENANCE RELEASE**

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

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

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

## 640 **6. EXECUTIVE COMMITTEE POLICIES AND PROCEDURES**

### 641 **6.1 SCOPE**

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

### 644 **6.2 MEMBERSHIP**

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

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

651 NOTE: In the near future the EC intends to merge the two ECs, and modify the number of members

652 and possibly their terms of office.

## 653 **6.3 EC DUTIES AND RESPONSIBILITIES**

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

## 677 **6.4 EC SELECTION PROCESS AND LENGTH OF TERM**

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

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

### 682 **6.4.1 RESIGNATION OF EC SEATS**

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

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

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

### 690 **6.4.2 ELECTION PROCESSES**

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

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

697  
698 In the interests of promoting transparency and participation in the election process the PMO shall  
699 organize teleconferences at which the Members have an opportunity to hear from and to ask  
700 questions of the candidates. If a suitable venue such as JavaOne is available the PMO shall also  
701 organize a public meeting with the same purpose.

### 702 **6.4.3 SELECTION PROCESS FOR RATIFIED SEATS**

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

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

### 712 **6.4.4 SELECTION PROCESS FOR ELECTED SEATS**

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

- 715 • Four weeks before the voting period the PMO shall post on the public JCP site a complete  
716 description of all materials that will be provided to voters (e.g. any candidate statements,  
717 position papers, candidate forums, etc. that will be posted during the election).
- 718 • Four weeks before the ballot period the PMO shall accept nominations from the Community for  
719 a period of 14 days. Any Member may nominate themselves except that Agents of JCP  
720 Members cannot run for Elected Seats as individuals and the PMO shall reject such  
721 nominations.
- 722 • Eligible Members may vote for as many nominees as there are vacant Elected Seats over a  
723 14-day ballot period.
- 724 • The nominees who receive the most votes shall fill the vacant Elected Seats.
- 725 • If there is only one nominee for an Elected Seat voters shall be given the opportunity to vote  
726 "yes" or "no" for that candidate. To be elected, the candidate must obtain a simple majority.
- 727 • If there is no candidate for an elected seat, the ECs may choose to hold this seat open until the  
728 next election.
- 729 • Ties shall be decided by following the procedure defined in <http://www.ietf.org/rfc/rfc2777.txt>  
730 and using the calculator provided by W3C in <http://www.w3.org/2001/05/rfc2777>.

## 731 **7. EXECUTIVE COMMITTEE JSR VOTING RULES**

- 732 1. All JSR ballots shall be conducted electronically and the results made public.
- 733 2. JSR balloting periods last 14 days except where noted in this document.
- 734 3. EC Members may cast three types of votes: "yes", "no" and "abstain". Explicit abstentions are  
735 strongly discouraged. In the extreme and most undesirable case, an EC Member may not  
736 vote at all.
- 737 4. Any vote may be accompanied by comments. When comments include specific suggestions  
738 for change these should be logged in the Issue Tracker to ensure that they are addressed.  
739 "No" votes must be accompanied by references to the Issue Tracker items (if any) that if

- 740 resolved would persuade the member to change the vote to "yes".
- 741 5. Only "yes" and "no" votes count in determining the result of a JSR ballot.
- 742 6. JSR ballots are approved if (a) a majority of the votes cast are "yes" votes, and (b) a
- 743 minimum of 5 "yes" votes are cast. Ballots are otherwise rejected.
- 744 7. Ballots to approve UJSRs that define the initial version of a new Platform Edition
- 745 Specifications or JSRs that propose changes to the Java language are approved if (a) at least
- 746 a two-thirds majority of the votes cast are "yes" votes, (b) a minimum of 5 "yes" votes are
- 747 cast, and (c) Oracle casts one of the "yes" votes. Ballots are otherwise rejected.
- 748 8. Maintenance Review ballots are advisory only, as indicated in section 5.1.
- 749 9. It is highly recommended that abstentions be accompanied by comments.
- 750 10. When a failed JSR ballot results in the closing of a JSR, at least 1 month must pass before
- 751 the JSR can be reinitiated.
- 752 11. EC ballots to override a first-level decision on a TCK challenge are approved if (a) at least a
- 753 two-thirds majority of the votes cast are "yes" votes, and (b) a minimum of 5 "yes" votes are
- 754 cast.
- 755 12.
- 756 13. When more than one EC is voting on any JSR ballot, the ballot shall be approved only if each
- 757 EC approves it separately.

### 758 **III APPENDIX A: REVISING THE JCP AND THE JSPA**

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

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