2 JCP 2: Process Document **■**

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5 Comments to: pmo@jcp.org

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CONTENTS

8		
	I EXECUTIVE SUMMARY	2
	II GENERAL DEFINITIONS	
	III THE JAVA COMMUNITY PROCESS SM PROGRAM	
	0. GENERAL PROCEDURES.	
	0.0 DEFINITIONS.	
	0.1 EXPERT GROUP TRANSPARENCY	2
	0.2 EXECUTIVE COMMITTEE DUTIES	6
	0.3 EXPERT GROUP PROCEDURES.	
	0.4 ESCALATION AND APPEALS	7
	0.5 TURNAROUND TIMES	7
	1. INITIATE A NEW OR REVISED SPECIFICATION	7
	1.0 DEFINITIONS	7
	1.1 INITIATE A JAVA SPECIFICATION REQUEST	8
	1.2 JSR REVIEW	9
	1.3 JSR APPROVAL BALLOT	10
	1.4 FORM THE EXPERT GROUP	10
	2. DRAFT RELEASES	10
	2.0 DEFINITIONS	
	2.1 WRITE THE FIRST DRAFT OF THE SPECIFICATION	
	2.2 EARLY DRAFT REVIEW	
	2.3 PUBLIC REVIEW	
	2.4 PUBLIC DRAFT SPECIFICATION APPROVAL BALLOT	
	3. FINAL RELEASE	
	3.0 DEFINITIONS	
	3.1 PROPOSED FINAL DRAFT	
	3.2 FINAL APPROVAL BALLOT	
	3.3 FINAL RELEASE	
	4. MAINTENANCE	
	4.0 DEFINITIONS	
	4.1 KEEP THE SPECIFICATION UP TO DATE	
	4.2 THE MAINTENANCE CYCLE	
	5. EXECUTIVE COMMITTEE POLICIES AND PROCEDURES	
	5.0 DEFINITIONS	
	5.1 SCOPE	
	5.2 MEMBEDSHID	16

5.3 EC DUTIES AND RESPONSIBILITIES	16
5.4 EC SELECTION PROCESS AND LENGTH OF TERM	
6. EXECUTIVE COMMITTEE JSR VOTING RULES	18
IV APPENDIX A: REVISING THE JCP AND THE JSPA	19

I EXECUTIVE SUMMARY

- The international Java community develops and evolves Java™ technology specifications using the Java Community Process (JCP). The JCP produces high-quality specifications using the 11
- 12
- 13 consensus building approach that produces a specification, a Reference Implementation (to prove the
- specification can be implemented), and a Technology Compatibility Kit (a suite of tests, tools, and 14
- 15 documentation that is used to test implementations for compliance with the specification).
- 16 Experience has shown that the best way to produce a technology specification is to gather a group of
- 17 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. Consensus around the form and content of 18
- 19 the draft is then built using an iterative review process that allows an ever-widening audience to review
- 20 and comment on the document.

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- 21 This version of the JCP was developed through the JCP by means of JSR 348, led by Oracle and the
- 22 combined Executive Committees as the expert group.
- 23 An Executive Committee (EC) representing a cross-section of both major stakeholders and other
- 24 members of the Java community is responsible for approving the passage of specifications through
- 25 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 26
- 27 desktop/server space (with responsibility for the Java SE™ and Java EE™ specifications) and the
- 28 other to oversee the Java technologies for the consumer/embedded space (with responsibility for the
- 29 Java ME[™] specification). The EC's are considering merging the two bodies into a single one in the
- 30 near future, so newly elected EC members should be aware that their terms may vary from what is
- 31 specified in section 6.4, "EC SELECTION PROCESS AND LENGTH OF TERM"
- There are four major steps in this version of the JCP: 💳 32
 - 1. INITIATION: A specification targeted at the desktop/server or consumer/embedded space is initiated by community member(s) 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 votes 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 the RI passes the TCK, all three deliverables are submitted to the PMO, who circulate them to the responsible EC for final approval.
 - 4. **MAINTENANCE**: The completed specification, reference implementation, and technology compatibility kit are updated in response to ongoing requests for clarification, interpretation, enhancements, and revisions. The responsible EC can review all proposed changes to the specification and indicate which ones can be carried out immediately and which will require the specification to be revised by an expert group.

II GENERAL DEFINITIONS

- 49 **Change Log:** And area accessible from the JSR Page that lists all changes made to the Specification,
- 50 RI, TCK and licenses since the previous release. A Change Log has six sections: PROPOSED
- 51 (changes not yet made to the Specification), ACCEPTED (changes made to the Specification),
- 52 DEFERRED (changes to be considered in a new JSR), RI (changes made to the RI), TCK (changes
- made to the TCK) and LICENSING (changes to the licensing terms)
- 54 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 apppointed an annual election process. The EC Policies and Procedures are in the EC
- 57 Standing Rules, which is parate document.
- 58 **Java Community Process (JCP)**: The formal process described in this document for developing or
- 59 revising Java technology specifications.
- 60 Java Community Process Member (Member): A company, organization, or individual that has
- signed the JSPA and is abiding by its terms.
- 62 **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
- 64 interfaces.

- Java Specification Participation Agreement (JSPA): A one-year renewable agreement between
- 66 Oracle America and a company, organization or individual that allows the latter entities to participate in
- 67 the Java Community Process.
- 68 **JCP Web Site**: The web site where anyone stay informed about JCP activities, download draft
- 69 and final Specifications, and follow the progress of Specifications through the JCP.
- 70 **JSR Page**: Each JSR has a dedicated public web page on the JCP Web Site where the JSR's history
- 71 is recorded and where all relevant information about the JSR is published.
- 72 Platform Edition Specification (Platform Edition): A Specification that defines a baseline API set
- that provides a foundation upon which applications, other APIs, and Profiles can be built. There are
- 74 currently three Platform Edition Specifications: Java SE, Java EE, and Java ME.
- 75 **Profile Specification (Profile)**: A Specification that references one of the Platform Edition
- 76 Specifications and zero or more other JCP Specifications (that are not already a part of a Platform
- 77 Edition Specification). APIs from the referenced Platform Edition must be included according to the
- 78 referencing rules set out in that Platform Edition Specification. Other referenced specifications must be
- 79 referenced in their entirety.
- 80 Program Management Office (PMO): The group within Oracle America that is responsible for
- administering the JCP and chairing the EC.
- 82 Reference Implementation (RI): The prototype or "proof of concept" implementation of a
- 83 Specification.
- 84 **Technology Compatibility Kit (TCK)**: The suite of tests, tools, and documentation that allows an
- 85 organization to determine if its implementation is compliant with the Specification.
- 86 The use of the term "day" or "days" in this document refers to calendar days unless otherwise
- 87 specified.

III THE JAVA COMMUNITY PROCESS SM PROGRAM 88

0. GENERAL PROCEDURES 89

90 0.0 DEFINITIONS

- 91 **JSR Renewal Ballot**: An EC ballot to confirm that a JSR should continue in its work.
- 92 JSR Renewal Reconsideration Ballot: An EC ballot to determine if a revised JSR should
- 93 continue its work.

0.1 EXPERT GROUP TRANSPARENCY 94

- 95 Each Expert Group is free to use the working style that it finds most productive and appropriate, so
- 96 long as this is compatible with the requirements specified in this document. For example, EGs may
- 97 choose to operate by seeking consensus or by voting on issues where there is disagreement.
- 98 As specified below, Expert Groups must operate in a transparent manner, enabling the public to
- 99 observe their deliberations and to provide feedback, which must be taken into consideration and to
- 100 which public responses must be provided. In the initial JSR submission the Spec Lead must specify
- the transparency mechanisms (for example, the mailing lists and issue tracker) that the Expert Group 101
- 102 intends to adopt, and must provide the URLs for accessing the chosen collaboration tools. The PMO
- 103 will publish this information on the public JSR Page.
- 104 If the EG changes its collaboration tools during the life of the JSR these changes must be reported to
- 105 the PMO, who will updated the relevant information on the JSR Page. Any such changes must ensure
- 106 that previously-published information is incorporated into the new tools. When voting to approve a
- 107 JSR's transition to the next stage EC members are expected to take into consideration the extent to
- 108 which the Spec Lead is meeting the transparency requirements.
- 109 Spec Leads should be aware of their obligations under the JSPA to license the output of their JSR on
- 110 Fair, Reasonable, and Non Discriminatory terms, and to make certain patent grants. Incorporating
- feedback provided through public email aliases or forums without ensuring that the provider has 111
- signed the JSPA or an equivalent Contribution Agreement make it impossible to meet these requirements or may expose the Spec Lead to legal liability. 112
- 113
- The use of Confidential materials (as defined in the JSPA) by Expert Groups limits transparency, is 114
- 115 strongly discouraged, and will be prohibited in a future version of the Process. If the Spec Lead
- 116 intends to permit the use of Confidential materials (such as emails, drafts or submissions marked as
- Confidential), this must be specified in the initial Java Specification Request. Expert Groups may also 117
- 118 choose to keep information private by means other than marking it as Confidential (for example, by not
- 119 publishing it on a publicly available site).1

0.1.1 Mailing Lists

- 121 All substantive business must be carried out on a public mailing list designated by the Spec Lead. The
- 122 purpose of this list is to keep observers aware of important issues and, minor administrative issues
- 123 that distract from substantive business should therefore be kept private. A private mailing list should
- 124 be used for minor administrative matters. Significant business includes, for example, eliminating or
- 125 adding new features to the JSR, changes to the membership of the expert group, modifications to the
- 126 reference implementation or the TCK, publication of the agenda, and on-going debate about JSR

¹ The EC intends to remove the confidentiality language from the JSPA in the next revision of that document.

- specifics. Non-substantive administrative matters such as notifications of meeting schedules.
- 128 messages directing expert group members to particular documents or URLs, and reminders about
- voting or task assignments should be excluded from the public mailing list.
- 130 If the public mailing list is writable by EG members only the Expert Group must also provide a publicly
- 131 readable and writable email list or a forum to enable feedback and comments from the public.

0.1.2 Issue Tracking

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- 133 Issues must be tracked through a publicly viewable issue tracking mechanism. A formalized issue
- tracking mechanism will help ensure that all issues raised by Bava community are documented
- and responded to before the JSR moves to the next stage.

136 **0.1.3 Response to Comments**

- 137 Expert Groups must respond publicly to all comments before a JSR can move to the next stage. All
- 138 comments regarding a JSR deserve a well-crafted response. Expert groups should review responses
- 139 prior to release to ensure that the response addresses the specific comment. Comments that are
- substantively the same as previously responded to comments (duplicate comments) can be answered
- through reference to the previous comment. Comments that are off-topic do not require a response
- but should be denoted as such. The executive committee reserves the righter require that a comment
- deemed by the expert group as off-topic be addressed prior to JSR review.

144 **0.1.4 Changes to Licensing Terms**

- 145 If the licensing terms for a JSR change substantially from one release to the next, the changes must
- be explicitly listed and explained. Changes to the licensing terms must be disclosed during JSR
- submission (in the case of a new JSR) or in the Change Log for Maintenance Releases. Subsequent
- changes to licensing terms during the life of the JSR must be disclosed when the Specification is next
- submitted to the PMO for public posting or review.
- 150 If the Spec Lead Member subsequently determines that circumstances require a change to one or
- more of the licenses it provided, the Spec Lead Member shall provide both the revised licenses and
- the reasons for the changes to the EC.
- 153 Existing licensees who not wish to accept a modified license when required to adopt a newer TCK will
- have the option to accept the updated TCK under the previous licensing terms.

155 **0.1.5 Compatibility Testing**

- 156 The Spec Lead is responsible for defining the process whereby the TCK is used to certify
- implementations of the JSR as compatible. The Spec 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
- 160 JCP website. If the Spec Lead submits the information in the form of a pointer to an already published
- 161 list the PMO may choose simply to reference that list rather than duplicate it.

162 0.1.6 JSR Deadlines

- 163 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 a majority of the EC
- 166 may initiate a JSR Renewal Ballot. The PMO will inform the Spec Lead and Expert Group of the
- decision of the EC to hold this ballot and request that the Spec Lead and Expert Group prepare a
- public statement to the EC. The JSR Renewal Ballot will start 30 days after the request. If the JSR

- Renewal Ballot is approved the EC, then another renewal ballot cannot be initiated for that JSR for 169 170 an additional year.
- 171 If the JSR Renewal Ballot fails, the Expert Group will have 30 days to update the JSR in response to
- 172 the concerns raised by the EC, and may submit a revised version to the PMO. If a revised JSR is not
- 173
- received by the end of the 30 days, the original decision by the EC will stand and the JSR will be closed revision is received, then the PMO will forward it to the EC and initiate a JSR Renewal 174
- 175 Reconsideration Ballot. At the close of balloting, all comments submitted by EC members, together
- 176 with their ballots will be circulated to the Expert Group by the PMO. If this ballot fails, the JSR will be
- closed and the Expert Group will disband. If the JSR was a revision to an existing Specification, the state of the state o 177
- 178 Spec Lead will resume the role of Maintenance Lead of the current Specification (see section 5).

0.2 EXECUTIVE COMMITTEE DUTIES

180 0.2.1 Transparency

- 181 All substantive Executive Committee business should be conducted in the most transparent manner
- 182 possible. EC transparency requirements are specified in a separate document, <name of standing
- 183 rules document>.

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0.2.2 Draft Reviews 184

- 185 During Draft Review periods EC members are strongly encouraged to have one or more technical
- 186 members of their organizations review the draft in order to uncover possible duplication of features or
- 187 services between the draft and other Specifications. EC members should inform the Expert Group of
- any such discoveries using the feedback mechanism specified by the Spec Lead. EC member 188
- feedback is particularly important to the Expert p, and EC members are encouraged not to wait until ballot periods to raise concerns and issues. 189
- 190

191 0.3 EXPERT GROUP PROCEDURES

0.3.1 WITHDRAWAL OF AN EXPERT FROM THE EXPERT GROUP 192

- 193 An Expert may withdraw from the Expert Group at any time. When this happens, the Spec Lead
- should approach the Member who originally contributed the Expert and work with that organization to 194
- 195 find a replacement. If no replacement is offered, the Spec Lead may recruit a replacement from
- 196 another Member. If the departing per is the Spec Lead, the Expert Group should choose one of its
- 197 members as the new Spec Lead.

0.3.2 DISRUPTIVE, UNCOOPERATIVE OR UNRESPONSIVE EXPERT GROUP MEMBERS 198

- 199 There may be rare instances when members of the Expert Group feel that one of their fellow Experts
- 200 is not acting in ways that advance the work of the Expert Group, and is being disruptive,
- uncooperative or unresponsive. EG members are expected to make a reasonable effort to resolve any 201
- 202 such issues among themselves, with the active help of the Spec Lead. However, if the situation cannot
- 203 be resolved in a timely manner, any three members of the EG can approach the Spec Lead and
- 204 request that the EG member in question be excluded from further participation in the EG. If the Spec
- 205 Lead agrees to the request he can then do so. In the case where the EG member in question is an
- employee of a JCP member company or organization, the Spec Lead must first request that the 206
- 207 company or organization replace its representative. If that does not happen in a timely manner, the
- 208 Spec Lead can exclude the company or organization itself from further EG participation. The Spec
- 209 Lead's decision as to whether to exclude or not can be appealed to the EC by following the process

210 outlined in Section 0.2, "Escalation and Appeals"

0.3.3 UNRESPONSIVE OR INACTIVE SPEC LEAD

- 212 There may be rare instances when members of the Expert Group feel that the Spec Lead is not acting
- 213 in ways that advance the work of the Expert Group and is being unresponsive or inactive. These
- 214 concerns should be brought to the attention of the EC as quickly as possible so they may be
- 215 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
- 218 made clear and documented to the EC). If the EC agrees that there is cause, it may ask the PMO to
- 219 replace the Spec Lead. In the case where the Spec Lead is an employee of a company or
- organization, the PMO should ask the company or organization to replace the Spec Lead, or it may
- 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 may
- 223 disband the Expert Group.

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224 0.4 ESCALATION AND APPEALS

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

234 0.5 TURNAROUND TIMES

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

1. INITIATE A NEW OR REVISED SPECIFICATION

1.0 DEFINITIONS

- 240 **Expert:** A Member representative ohas 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
- 243 Specification.
- Java Specification Request (JSR): The document submitted to the PMO by one or more
- 245 Members to propose the development of a new Specification or significant revision to an
- existing Specification.
- JSR Approval Ballot: The EC ballot to determine if the JSR should be approved.

248 **JSR Reconsideration Ballot**: The EC ballot to determine if a revised JSR should be 249 approved. JSR Review: A 4 week period when anyone review and comment on a new JSR. 250 Specification Lead (Spec Lead): The Expert responsible for leading the effort to develop 251 252 or make significant revisions to a Specification and for completing the associated 253 Reference Implementation and Technology Compatibility Kit. A Spec Lead (or the Spec 254 Lead's host company or organization) must be a Java Community Process Member. 255 **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. 256 257 **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. 258 1.1 INITIATE A JAVA SPECIFICATION REQUEST 259 260 One or more Members can initiate a request to develop a new Specification, or carry out a significant 261 revision to an existing one, by sending a JSR to the PMO. The JSR must use the template available at 262 the JCP Web Site. Any JSR under consideration can be withdrawn by its submitter(s) without 263 explanation at any time prior to the completion of the JSR approval vote (see section 1.3) upon 264 request by the submitter(s) to the PMO. The following is some of the information required to be included with each JSR: 265 • the Members making the request (the submitters), a Spector, and the initial members of the 266 267 Expert Group. 268 a description of the proposed specification. 269 the reason(s) for developing or revising it. 270 the primary Platform Edition, as well as any consideration given to other Platform Editions. 271 an estimated development schedule. 272 any preexisting documents, technology descriptions, or implementations that might be used as 273 a starting point. 274 a transparency plan, which outlines the tools and techniques that the Spec Lead will use, 275 during the creation and development of the specification, and for communicating the progress 276 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. 277

1.1.1 REVISE EXISTING SPECIFICATIONS

- 279 Existing Specifications, along with their associated RIs and TCKs, are maintained by a designated
- 280 Maintenan—Lead using the processes described in section 5 of this document. Maintenance Lead
- 281 Members expected to assume long term ownership of their Specifications, RIs, and TCKs with
- due respect of the will of the Java Community Members with regard to evolution. This means that
- 283 Maintenance Leads will automatically be the Spec Leads for all significant revisions to their
- 284 Specifications going forward but they will not have the exclusive right to decide when a significant
- 285 revision will take place. That will be decided by the EC in response to a revision JSR that can be
- initiated by any Java Community Member (or Members). The only provision is that the submitter(s)
- 287 should make a reasonable effort to get some of the members of the previous Expert Group to join the
- 288 revision effort.

289 1.1.2 PROTECT THE INSTALLED BASE AND GUARD AGAINST FRAGMENTATION

- 290 Changes to the Java programming language, the Java virtual machine (JVM), the Java Native
- 291 Interface (JNI), packages in the "java.*" space, or other packages delivered as part of Java SE, have
- the potential to seriously disrupt the installed base if carried out inconsistently across the Platform
- 293 Editions. In order to protect the installed base, any such changes can only be accepted and carried
- 294 out within a UJSR for Java SE.
- 295 In order to guard against fragmentation, new Platform Edition Specifications will not substantially
- 296 duplicate existing Platform Editions or Profiles.

297 1.1.3 PROFILES AND API SPECIFICATIONS TARGET CURRENT PLATFORM EDITIONS

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

302 1.1.4 CONTINUED AVAILABILITY

- 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. Future versions of the technology may be integrated into a Profile or a
- 305 Platform Edition while previous versions were not. The JSR submission form requires the submitter to
- 306 state whether the JSR's RI and TCK should be delivered as part of a Profile or Platform Edition, in
- 307 stand-alone manner, or both. When delivering the JSR's RI and TCK integrated into a Profile or
- 308 Platform Edition and not delivering these separately and where the RI and TCK of previous versions
- were available separately, the submitter must state the rationale.
- 310 A JSR for a new version of an API that proposes to become part of a Profile or Platform Edition and is
- 311 considering discontinuing stand-alone availability where the previous JSR for this API did not indicate
- this plan, must make that proposal to discontinue stand-alone availability one version ahead.

313 1.1.5 PLATFORM INCLUSION

- 314 JSRs that want to be considered for inclusion in a Platform Edition or a Profile should state this intent
- 315 in the JSR's submission. The final decision whether a specific JSR is included in a Profile or a
- 316 Platform Edition is made by the Spec Lead and Expert Group of that Platform Edition JSR or Profile
- 317 JSR, and confirmed by the EC ballots on those JSRs. If the Platform Edition or Profile JSR turns down
- 318 the request for inclusion, then the JSR for the API will be required to deliver a stand-alone RI and
- 319 TCK.

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1.2 JSR REVIEW 📁

- When a JSR is received, the PMO will give it a tracking number, assign the JSR to the appropriate EC
- 322 (or both ECs if so requested by the submitter), create its JSR Page, announce the proposed JSR to
- 323 the public, and begin JSR Review. Comments on the JSR should be sent to the e-mail address listed
- 324 on the JSR Page. All comments received will be made available from the JSR Page (similar comments
- 325 may be consolidated) and forwarded to the EC for its consideration. Members who are interested in
- 326 joining the Expert Group (should the JSR be approved) should identify themselves by submitting a
- 327 nomination form to the PMO.

1.2.1 DISCLOSURE OF LICENSING TERMS FOR THE RI AND TCK

- The Spec Lead Member esponsible for the Reference Implementation (RI) and Technology
- 330 Compatibility Kit (TCK) and its licensing under terms compatible with the licensing guidelines

- established for use within the JCP. The Spec Lead Member will provide the EC with the terms under
- which the RI and TCK will be licensed no later than the start of JSR Review. The Spec Lead photon which the RI and TCK will be licensed no later than the start of JSR Review.
- must provide complete copies of the licenses that they intend to use, not simply summaries.
- 334 licenses will be published on the public JSR page. EC members will provide feedback on the terms as
- an indication of how the community might react as a whole to the terms. If the EC consensus is that the
- proposed licensing terms are not compatible with the licensing guidelines established for use within
- the JCP, then balloting on the proposed JSR will be delayed until Oracle legalessivides an opinion on
- the matter. The opinion of Oracle legal will be the final decision on the matter.

339 1.3 JSR APPROVAL BALLOT

- After the JSR Review, EC members will when the JSR, any comments and nominations received,
- and cast their ballot as specified in Section 6. below to decide if the JSR should be approved.
- 342 If the JSR Approval Ballot fails, the PMO will send all EC comments to the JSR submitter(s) who may
- revise the JSR and resubmi it within 14 days. If a revised JSR is not received in that time, the original
- 344 EC decision will stand and the JSR will be closed. If a revised JSR is received, the PMO will post it to
- the JSR Page, announce the revised JSR to the public, and send it to all EC members for a JSR
- Reconsideration Ballot. If that ballot fails, the JSR will be closed.

347 1.4 FORM THE EXPERT GROUP

- Within 14 days of a a JSR being approved, the PMO instructs the identified Spec Lead to form the
- 349 Expert Group. If the Member contributing the Spec Lead withdraws from the Community before the
- 350 JSR is approved, the PMO will request the initial Expert Group to choose a replacement from among
- themselves who is willing to take on the duties defined in this document.
- 352 There is no size limit on the Expert Group. The Spec Lead may add additional Experts at any time
- provided the EC members are consulted. New members may be added, for example, to increase
- 354 diversity of opinion.

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- 355 Any JCP member or employee of a JCP member can request to join an Expert Group at any time by
- sending an email to the Spec Lead of such EG. The request, together with the Spec Lead's official
- 357 response, substantive deliberations within the EG about this matter, and any other official decision
- related to EG composition, including decisions to remove or replace EG members, must be made
- 359 public via the EG's public alias.

2. DRAFT RELEASES

2.0 DEFINITIONS

- **Early Draft Review:** A 30 to 90 day period during which the public reviews and comments
- on the draft Specification.
- Proposed Final Draft: The version of the draft Specification that will be used as the basis
- 365 for the RI and TCK.
- 366 **Public Draft Specification Approval Ballot**: The EC ballot to determine if a draft should
- 367 proceed after Public Review.
- **Public Draft Specification Reconsideration Ballot**: The EC ballot to determine if a
- revised draft should proceed after Public Review.

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

2.1 WRITE THE FIRST DRAFT OF THE SPECIFICATION

- 373 The Expert Group should begin work by considering the requirements set forth in the JSR, any
- 374 contributed documents or technology descriptions, comments received during JSR Review and, if this
- is a revision of an existing Specification, the Change Log kept by the Maintenance Lead (see section
- 4). Additional input can be obtained from discussions with other Members, industry groups, software
- developers, end-users, and academics. The goal is to define requirements and then write a draft
- 378 specification suitable for review by the Community and the public.
- When the Expert Group decides that the first draft is ready for review, the Spec Lead will send the
- 380 draft, along with any additional files required for review, to the PMO. The Spec Lead should also
- 381 suggest the length of the Early Draft Review period if the Expert Group feels it should go beyond the
- 382 minimum 30 days.

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- 383 Multiple Early Draft (and Early Draft Reviews) are encouraged where the Expert Group feels that this
- 384 would be helpful. 💳

2.2 EARLY DRAFT REVIEW

- Refinement of the draft Specification begins when the PMO posts it to the JCP Web Standard
- announces the start of Early Draft Review to all the Members and the public. Anyone who all the Members and the public and the publi
- and comment on the draft. The goal of Early Draft Review is to get the draft Specification into a form
- 389 suitable for Public Review as quickly as possible by uncovering and correcting major problems with
- the draft. Early Draft Review is an early access review, designed to ideally take place when the
- 391 specification still has some unresolved issues. The public's participation in Early Draft Review is an
- important part of the JCP. In the past, comments from the public have raised fundamental architectural
- 393 and technological issues that have considerably improved some Specifications.

394 2.2.1 UPDATING THE DRAFT DURING EARLY DRAFT REVIEW

- 395 If the Expert Group makes major revisions to the draft during Early Draft Review, the Spec Lead
- 396 should send the revised draft, along with a synopsis of the changes, to the PMO. The PMO will
- immediately notify Members and the public of any updated draftened change synopses received and
- make them available for download by Members and the public.
- 399 After the Early Draft Review period has ended, the Expert Group can make any additional changes to
- 400 the draft it deems necessary in response to comments before submitting the draft to the PMO for
- 401 Public Review.

402 2.3 PUBLIC REVIEW

- 403 Public Review begins when the PMO posts a new draft Specification on the JCP Web Site and
- 404 announces its availability to both Members and the public.
- 405 The Spec Lead is responsible for ensuring that all comments are read and considered. If those
- comments result in revisions to the agreement and those revisions result in major changes (in the opinion of
- the Expert Group), then the Spectrum d must send an updated draft (with a summary of the changes)
- to the PMO before the review period ends. The PMO will post the new draft the change summary
- on the JCP Web Site and will notify the public that the new draft is available.

410 2.4 PUBLIC DRAFT SPECIFICATION APPROVAL BALLOT

- 411 The Public Draft Specification Approval Ballot starts when the Public Review closes. At the close of
- balloting, all comments submitted by EC members with their ballots will be circulated to the Expert
- 413 Group by the PMO.
- 414 If the Public Draft Specification Ballot fails, the Expert Group will have 30 days to update the draft in
- 415 response to the concerns raised by the EC and submit a revised version to the PMO. If a revised draft
- 416 is not received by the end of the 30 days, the original decision by the EC will stand and the JSR will be
- 417 closed. If a revision is received, the PMO will forward it to the EC and initiate a Public Draft
- 418 Specification Reconsideration Ballot. At the close of balloting, all comments submitted by EC members
- with their ballots will be circulated to the Expert Group by the PMO. If this ballot fails, the JSR will be
- 420 closed and the Expert Group will disband. If the JSR was a revision to an existing Specification, the
- 421 Spec Lead will resume the role of Maintenance Lead of the current Specification (see section 4).

3. FINAL RELEASE<mark></mark> ■

423 3.0 DEFINITIONS

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- 424 **Appeal Ballot**: The EC ballot to override a first-level decision on a TCK test challenge.
- Final Draft: The final draft of the Specification that will be put forward for EC approval.
- 426 Final Approval Ballot: The 14-day EC ballot to approve the Final Draft along with its
- 427 associated RI and TCK.
- 428 Final Approval Reconsideration Ballot: The 14-day EC ballot to reconsider an initial
- rejection of a Final Draft, RI, and TCK.
- 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
- 432 TCK.

433 **3.1 PROPOSED FINAL DRAFT**

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

438 3.1.1 COMPLETE THE RI AND TCK

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

446 3.1.2 ESTABLISH A FIRST-LEVEL TCK APPEALS PROCESS

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

453 3.1.3 UPDATE THE DELIVERABLES IN RESPONSE TO THE APPEAL BALLOT

- 454 Depending on the nature of the problem, a successful TCK challenge will require updating one or
- 455 more of the TCK, the Specification, or the RI. Within one month of the close of a successful ballot the
- 456 Maintenance Lead must update these deliverables as necessary and record the changes in the
- relevant sections of the Change Log. The modified Change Log, the Specification (if changed,) and
- 458 URLs for updated RI and/or TCK must be delivered to the PMO, who will publish them on the JCP
- 459 website.

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460 3.2 FINAL APPROVAL BALLOT

- When the Expert Group is satisfied that the TCK provides adequate test coverage, the RI correctly
- implements the Specification, and the RI passes the TCK, the Spec Lead will send the Final Draft of
- the Specification to the PMO along with instructions on how EC members can obtain the RI and TCK
- 464 for evaluation. The PMO will circulate the materials to the EC and initiate the Final Approval Ballot. At
- the close of balloting, all EC comments will be sent to the Expert Group by the PMO.
- The TCK submitted as part of the Final Draft must meet the following requirements:
 - Include documentation covering configuration and execution of the TCK, a definition and explanation of the First-level TCK Appeals Process, the compatibility requirements that must be met in addition to passing TCK tests, and any other information needed to use the TCK (e.g. Tools documentation).
 - Be accompanied by a test harness, scripts or other means to automate the test execution and recording of results.
 - Include a TCK coverage document that will help EC members to evaluate the TCK's quality.
 This document should include an overview of the documentation included in the TCK, a
 description of means used to validate the quality of the TCK, the criteria used to measure TCK
 test coverage of the Specification, test coverage numbers achieved, and a justification for the
 adequacy of TCK quality and its test coverage.
 - Provide 100% signature test coverage. These tests must ensure that all of the required API signatures of the spec are completely implemented and that no non-specified APIs are included in the JSR's namespace.
- 481 If the Final Approval Ballot fails, the Spec Lead will have 30 days to revise the Specification, RI, and
- 482 TCK in response to EC concerns and to resubmit modified materials to the PMO.
- 483 If no responses are received within 30 days the original decision of the EC will stand, the PMO will
- 484 close the JSR, and the Expert Group will disband. If the JSR was a revision to an existing
- 485 Specification, the Spec Lead will resume the role of Maintenance Lead of the current Specification
- 486 (see section 4).
- 487 If a response is received, the PMO will circulate it to all EC members for a Final Approval
- 488 Reconsideration Ballot. At the close of balloting, all ballot comments submitted by EC members will be
- 489 circulated to the Expert Group by the PMO. If the reconsideration ballot fails, the JSR will be closed

- 490 and the Expert Group will disband. If the JSR was a revision to an existing Specification, the Spec
- Lead will resume the role of Maintenance Lead of the current Specification.

492 3.3 FINAL RELEASE

- Within 14 days of a successful Final Approval Ballot or Reconsideration Ballot, the PMO will publish on
- 494 the JCP website the Specification and links to information on how to obtain the RI and TCK and will
- announce the availability of these materials to both Members and the public. The published TCK
- information metinclude a means for any interested party to obtain a copy of the TCK documentation
- 497 at no charge. Final Release, the Expert Group will have completed its work and disbands. The
- 498 Spec Lead will typically be the Maintenance Lead and may call upon Expert Group members and
- 499 others for aid in that role.
- 500 The Maintenance Lead must ensure the links to the RI and TCK remain valid through the lifetime of
- the Specification. If the links become broken or non-functional, the Maintenance Lead will have 30
- days following notification from the PMO of the invalid links to correct them. If the problems are not
- 503 corrected within the 30 days, the Specification must reper the Process at the Proposed Final Draft
- 504 stage and complete the Final Approval process again.

4. MAINTENANCE 🧮

4.0 DEFINITIONS

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- **Dormant Specification (Dormant)**: A Specification that does not have an identified
- Maintenance Lead. All Specifications become Dormant at the end of their life cycles.
- 509 **Item Exception Ballot :** The EC ballot to determine whether or not to include specific
- 510 change items in a Minor Revision.
- Maintenance Lead (ML): The Expert responsible for maintaining the Specification.
- Maintenance Review : A period of at least 30 days prior to finalization of a Minor
- Revision when Members and the public consider and comment on the change items listed
- in the PROPOSED section of the Change Log.
- Minor Revision: Minor changes made to a Specification by the ML.
- Transfer Ballot: The EC ballot to approve transfer of ownership of a Specification, RI, and
- 517 TCK from one Member to another Member. ²

4.1 KEEP THE SPECIFICATION UP TO DATE

- 519 The Maintenance Lead is responsible for carrying out maintenance on the Specification and dealing
- 520 with errata by fielding requests for clarification, interpretation, and enhancements to the Specification
- 521 from both Members and the public via an e-mail address listed in the Specification. The ML will
- 522 consider all requests and will decide how and if the Specification should be updated in response. The
- 523 ML will typically be the Spec Lead from the Expert Group that developed the Specification. The ML is
- not required to do all these tasks alone. The ML may find it very helpful to recruit members of the

² 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.

525 Expert Group that helped to develop the Specification to assist with the Maintenance duties.

4.1.1 THE MAINTENANCE LEAD MAKES A LONG TERM COMMITMENT

- 527 The Maintenance Lead (and his or her host company or organization) is expected to assume long
- term ownership of the Specification, RI, and TCK with due respect of the will of the Java Community
- 529 Members with regard to evolution. This means that a Maintenance Lead will automatically be the Spec
- 530 Lead for all significant revisions to their Specification going forward but he or she will not have the
- exclusive right to decide when a significant revision will take place (see section 1.1.1).

4.1.2 RELINQUISHING OWNERSHIP

- 533 If the ML decides to discontinue his or her work for whatever reason (including discontinuing
- 534 maintenance activities or declining to take on the role of Spec Lead during a significant revision
- initiated by a JSR) the ML should make a reasonable effort to locate another Member who is willing to
- take on the task. If the ML fails to find a replacement, the PMO will declare the Specification to be
- 537 Dormant. No further maintenance will be carried out on it until a new ML is identified and ownership of
- the Specification, RI, and TCK is transferred to the new ML's organization (subject to a successful
- 539 Transfer ballot by the EC).

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4.2 THE MAINTENANCE CYCLE

- 541 The PMO will provide a publicly archived Maintenance feedback email address for requests for
- 542 Specification clarifications, corrections or changes from the public. The ML will review all comments,
- 543 identify common themes, and arrange with the PMO to make a list of frequently raised issues
- available from the document's JSR Page. The ML is free to consult with the former members of the
- 545 Expert Group, or any other sources, for advice on how to revise the Specification. All change items
- 546 proposed by the ML will make their way into the Specification by either the Minor Revision process
- 547 (described in section 5.2.1) or by a JSR.

548 **4.2.1 MINOR REVISION PROCESS**

- The ML will document all suggested changes in PROPOSED section of the Change Log and then
- send a request to the PMO to initiate a Maintenance Review. Before the Maintenance Review begins.
- 551 the ML must summarize comments received at the Maintenance feedback email address (similar
- comments may be consolidated) and indicate the disposition for each comment (e.g. deferred with a
- 553 brief explanation, rejected with a brief explanation, included in Change Log proposal). This will be
- posted along with the Change Log on the JSR Page. The PMO will make a public announcement and
- begin the review within 14 days of receipt of the request.
- 556 The ML may choose to modify one or more of the proposed changes based on comments received
- 557 during review. All comments will be available from the JSR Page. At the end of Maintenance Review,
- 558 the ML will update the Specification, document all revisions in the ACCEPTED section of the Change
- Log, and delete the corresponding entries in the PROPOSED section. All changes not incorporated
- into the Specification may be either left in the PROPOSED section or moved to the DEFERRED
- section.

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4.2.2 THE EC MAY DEFER MINOR REVISION ITEMS

- 563 During Maintenance Review an EC member may request that specific proposed change items be
- deferred to the next JSR. Any such request must be made to the PMO no later than the close of
- 565 Maintenance Review. If requests are received, the PMO will circulate the requests to all EC members
- 566 and initiate a 7 day Item Exception Ballot within 2 weeks after the close of the Maintenance Review. At
- the close of the Item Exception Ballot, the PMO will post the ballot results to the Change Log. The ML

- 568 will place all proposed changes that were disapproved into the DEFERRED section. The ML will need
- 569 to initiate a JSR to carry out any of those changes. The ML must post an updated version of the
- Specification within one month of the completion of the Review and any Item Exception Ballot. 570

571 4.2.3 KEEPING THE RI AND TCK SYNCHRONIZED WITH THE SPECIFICATION

- 572 Whenever the Specification is updated, the ML is responsible for reviewing the current RI and TCK to
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- determine what revisions (if any) are needed to keep the RI and TCK synchrogist with the Specification. The ML must record all RI and TCK updates in the Change Logistic maintenance. 574
- 575 changes will be considered final when the RI and TCK are synchronized with the Specification.

5. EXECUTIVE COMMITTEE POLICIES AND PROCEDURES

5.0 DEFINITIONS 577

- **definition Ratified Seat**: An EC seat filled by the ratification process described in 578
- 579 section 6.4.2.
- 580 **definition - Elected Seat**: An EC seat filled by the election process described in section
- 581 6.4.3.

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5.1 SCOPE 582

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

5.2 MEMBERSHIP 585

- 586 The Executive Committee is current pmposed of 16 Java Community Process Members plus a non-
- voting Chair. The Chair of the EC is a member of the Process Management Office. The 16 voting 587
- 588 members are selected from Java Community Process Members. Oracle America, Inc. has a
- 589 permanent voting seat on the EC. That Oracle representative is not be a member of the PMO.
- 590 Should one Member on the EC acquire a majority ownership of another EC needs one of those
- 591 members must resign his or her seat by the effective date of the acquisition.

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5.3 EC DUTIES AND RESPONSIBILITIES

- 1. Select JSRs for development within the JCP.
- 2. Approve draft Specifications for Public Review.
- 3. Give final approval to completed Specifications and their associated RIs and TCKs.
- 4. Decide appeals of first-level TCK test challenges.
- 5. Review maintenance revisions and possibly require some to be carried out in a new JSR.
- 6. Approve transfer of maintenance duties between Members.
- 7. Provide guidance to the PMO and JCP Community to promote the efficient operations of the organization and to guide the evolution of Java platforms and technologies. Such guidance may be provided by mechanisms such as publishing white papers, reports, or comments as the EC deems appropriate to express the prince of one or both Executive Committees.
 - 8. Members of the Executive Committee lb be dedicated to the principles of full and open

competition, in full compliance with all applicable laws, including all antitrust laws of the United States and other nations and governmental bodies as appropriate. Violations of such laws can result in criminal as well as civil penalties for individuals as well as employers, depending on the jurisdiction. In particular, any discussion related to product pricing, methods or channels of distribution of markets or allocation of customers, among other subjects, should be avoided.

5.4 EC SELECTION PROCESS AND LENGTH OF TERM

- Voting Members on the EC serve three year terms. There are 2 Ratified Seats for every Elected Seat,
- 616 (currently 10 Ratified Seats and 5 Elected Seats) plus one permanent seat held by Oracle America,
- Inc. The terms are staggered so that a third of the Voting seats are normally up for election each year.
- Ratified or Elected Seats are vacated prior to completion of the term will be filled as described in
- 619 sections 6.4.2 and 6.4.3.

620 5.4.1 RESIGNATION OF EC SEATS

- Members on the EC may resign their seats at any time during their term.
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623 EC members who fail to remain Java Community Members forfeit their EC seat.

5.4.2 SELECTION PROCESS FOR RATIFIED SEATS

- 625 Members are selected for the Ratified Seats using a ratification ballot.
- A Ratified Seat that was vacated by resignation will be filled for the remainder of its term by a
- 627 ratification ballot that will be held no later than two months after the resignation (unless the resignation
- 628 is less than six months before the next scheduled ratification ballot).
- 629 All JCP Members are eligible to vote in a ratification ballot subject to the provision that if a Member
- has majority-ownership of, or is the employer of, one or more other Members, then that group of
- Members will collectively have 1 vote, which will be their by the person they designate to be their
- 632 representative for the ratification ballot in question.
- 633 The ratification ballot is carried out as follows:
 - The PMO nominates Members to fill the vacant Ratified Seats with due regard for balanced community and regional representation.
 - Voting begins starting in the third week of October each year.
- Eligible Members will vote to ratify each nominee over a 14-day voting period.
 - A nominee is ratified by a simple majority of those who cast a vote.
 - If one or more of the nominees are not ratified by the vote, the PMO will nominate additional Members as needed and hold additional ratification ballots until the vacant seats are filled.

641 5.4.3 SELECTION PROCESS FOR ELECTED SEATS

- Members are selected for the Elected Seats using an open election process.
- An Elected Seat that was vacated by resignation will be filled for the remainder of its term by an
- 644 election ballot that will be held no later than two months after the resignation (unless the resignation is

- less than six months before the next yearly election).
- 646 All JCP Members are eligible to vote in an election ballot subject to the provision that if a Member has
- majority-ownership of, or is the employer of, one or more other Members, then that group of Members
- will collectively have 1 vote, which will be a cast by the person they designate to be their representative.
- 649 for the ratification ballot in question.

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- 650 The election ballot is carried out as follows:
 - Four weeks before the voting period, the PMO will post on the public JCP site a complete description of all materials that will be provided to voters from the JCP election pages and ballot (e.g. any candidate statements, position papers, candidate forums, etc. that will be posted during the election).
 - Starting four weeks before the voting period, the PMO will accept nominations from the Community for a period of 14 days. Any Member may be nominated. However, employees of EC members cannot run for election as individuals and the PMO shall reject such nominations.
 - · Voting begins in the fourth week of October each year.
 - Eligible Members may vote for as many nominees as there are vacant Elected Seats over a 14-day voting period.
 - The nominees who receive the most votes will fill the vacant Elected Seats.
 - Ties will be decided by following the procedure defined in http://www.ietf.org/rfc/rfc2777.txt and using the calculator provided by W3C in http://www.w3.org/2001/05/rfc2777.

6. EXECUTIVE COMMITTEE JSR VOTING RULES

- 1. All EC JSR votes will be conducted electronically and the results made public.
- 2. EC JSR balloting periods last 7 days except where noted in this document.
- 3. EC Members may cast three types of votes: "yes", "no" and "abstain". Explicit abstentions are strongly discouraged. In the extreme and most undesirable case, an EC Member may not vote at all.
- 4. Only "yes" and "no" votes count in determining the result of an EC ballot.
- 5. EC 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.
- 6. EC ballots to approve UJSRs for 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.
- 7. "No" votes must be accompanied by an explanation along with changes (if any) that are necessary to change the vote to "yes".
- 8. It is highly recommended that abstentions be accompanied by comments.
- When a failed EC JSR ballot results in the closing of a JSR, at least 1 month must pass before the JSR can be reinitiated.
- 10. EC ballots to override a first-level decision on a TCK challenge are approved if (a) at least a two-thirds majority of the votes cast are "yes" votes, and (b) a minimum of 5 "yes" votes are cast
- 11. 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.
- 12. When more than one EC is voting on any JSR ballot, the ballot will be approved only if each EC approves it separately.

691 IV APPENDIX A: REVISING THE JCP AND THE JSPA

- Revisions to the Java Community Process (this document) and the Java Specification Participation Agreement will 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.
- 695 2. Each EC must approve the JSR.

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- 3. The Expert Group consists of both ECs with a member of the PMO as Spected.
 - 4. There is no Reference Implementation or Technology Compatibility Kit to be delivered and no TCK appeals process to be defined.