



# *Java Community Process Program: State of the Community*

**December 2003**



# The Java Community Process<sup>SM</sup>

```
char[] result = { 106, 99, 112, 46, 111, 114, 103 };  
for (int i = 0; i < result.length; i++) {  
    System.out.print (result[i]);  
}
```

**The home of the international developer community whose charter it is to develop and evolve Java<sup>TM</sup> technology specifications, reference implementations and technology compatibility kits.**

<http://JCP.org>



# Developer Benefits

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```

- **The JCP is the place to**

- Develop new APIs
- Learn about new APIs
- Give feedback, comment on Java APIs
- ***Help Java advance!***

- **One can participate**

- As a corporate or institutional representative
- As an individual expert



# Technologies

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```

- **Java 2 Standard Edition™ (J2SE™)**

- The JDK

- **Java 2 Enterprise Edition™ (J2EE™)**

- Eg Java Server Pages, Servlets, Enterprise JavaBeans

- **Java 2 Micro Edition™ (J2ME™)**

- Eg MID-P, CLDC, PDA Profile, Bluetooth

- **XML and Web Services**

- Eg XML data binding, XML schemas, XML messaging, RPC, Web Services for J2EE and J2ME

- **Tools Support**

- Eg Web Services Metadata, Persistence for JavaBeans

- **Telecommunications – JAIN, OSS initiatives**



# The JCP at a Glance

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- **Goal: to set a binary software standard**
  - The promise to developers: Write Once, Run Anywhere
- **Each Java Specification Request creates:**
  - Java API specification
  - Reference Implementation
  - Compatibility Test Suite
- **Balancing speed, compatibility, consensus**
- **JSRs are approved by Executive Committees (EC)**
- **700+ Members**
- **234+ JSRs**



# Executive Committees

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- **Two Executive Committees (EC) elected each year by the JCP membership**
- **ME EC**
  - Ericsson, IBM, Insignia, Matsushita, Motorola, Nokia, Philips, RIM, Siemens, Sony-Ericsson, Sony, Sun, Symbian, Texas Instruments, Vodafone
- **SE/EE EC**
  - Apache, Apple, BEA, Borland, Fujitsu, HP, IBM, IONA, Doug Lea, Macromedia, Richard Monson-Haefel, Nokia Networks, Oracle, SAP, SCO Group, Sun



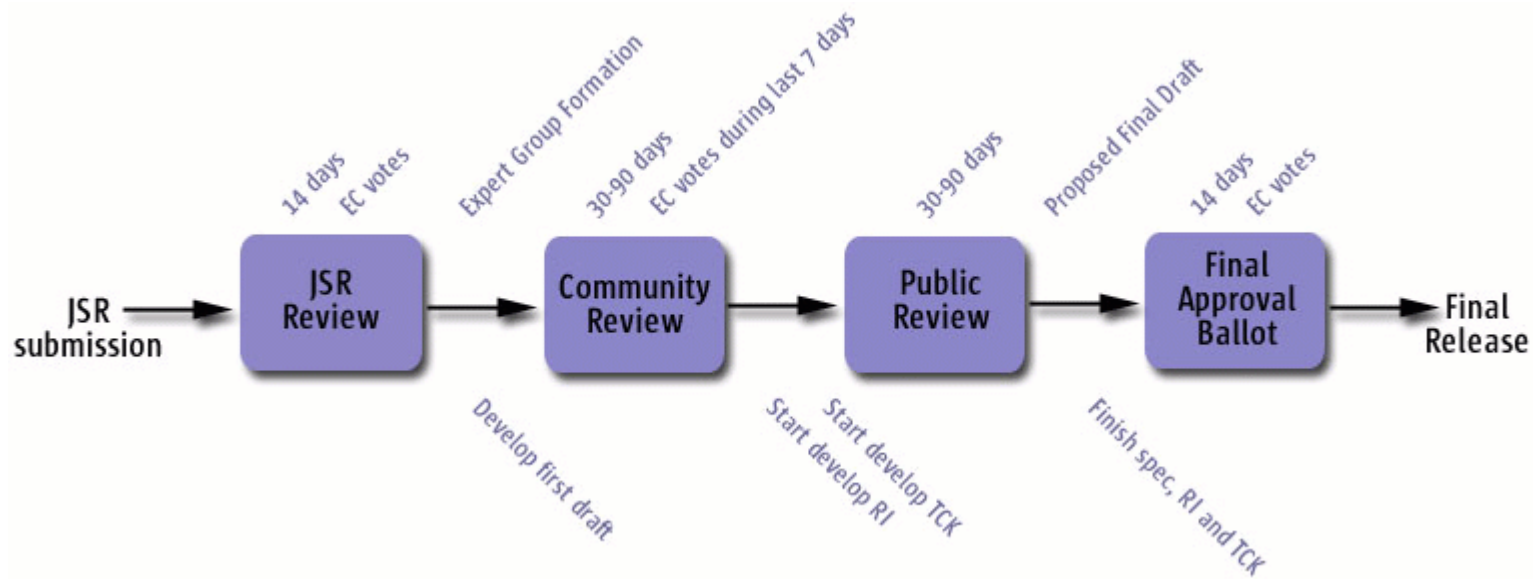
# The JSR, the Spec Lead & the Expert Group

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```

- **Each JSR has an Expert Group and is led by a Spec Lead**
- **Key aspects:**
  - The group's working model including decision making
  - Ensure diversity of opinion
  - Build relationships
  - Identify levels of collaboration and participation
- **Drafts are created via increasing levels of maturity and increasing levels of peer and shepherd review**

# JSR Timeline

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# A Binary Software Standard

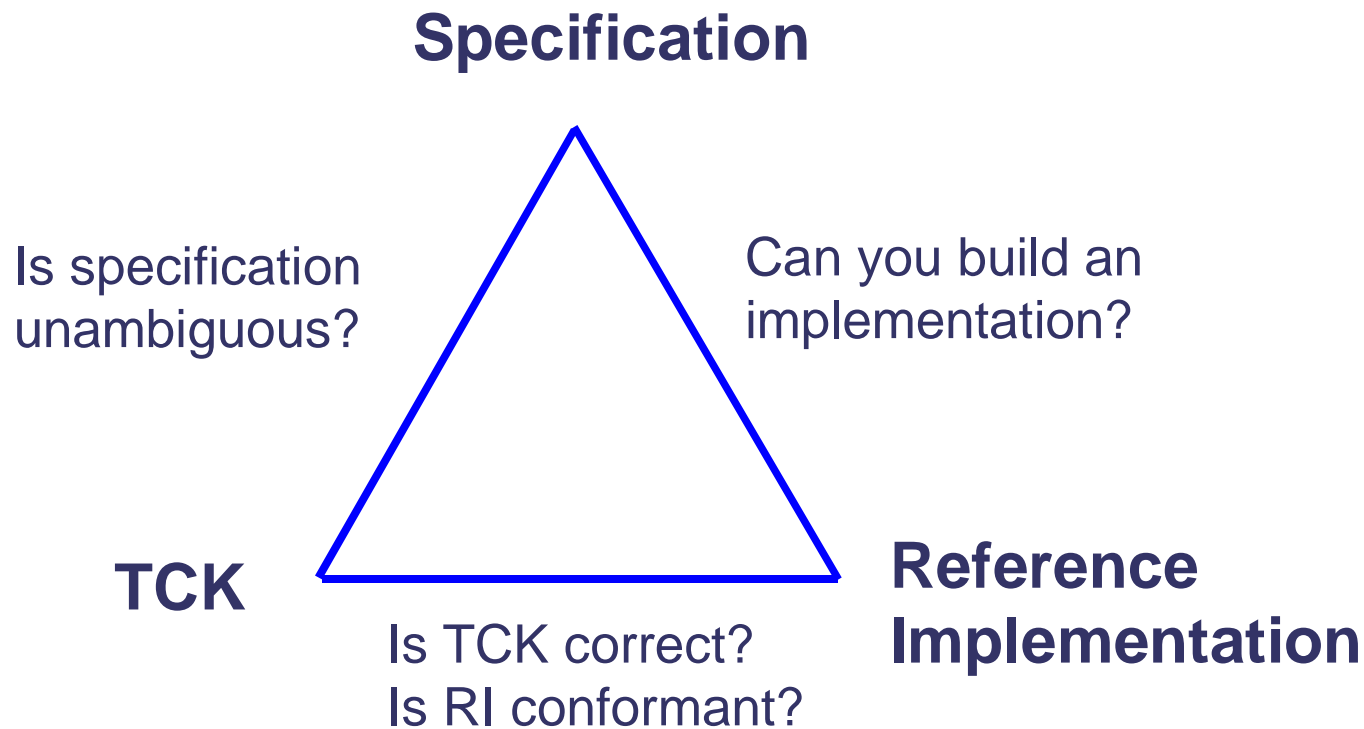
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```

- **For developers: Write Once, Run Anywhere**
- **For all: product-level component interchange**
- **History shows: It does not happen by itself.**
- **Thus, for each JSR:**
  - Specification
  - Reference Implementation --> feasibility
  - Technology Compatibility Kit --> compatibility, interoperability



# Why Three Parts are Required

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```



Each supports the other during development

# Only Standards Body With a Version Number

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```

- **JCP 1.0, Dec 1998**

- Program Office at Sun was key decision maker

- **JCP 2.0, June 2000**

- Installment of ECs as key decision makers
- Others than Sun can lead and license JSRs

- **JCP 2.1, July 2001**

- Updating of voting rules

- **JCP 2.5, October 2002**

- Open Source gains equal standing in the Community

- **JCP 2.6, Planned for early 2004**

- Greater efficiency in the process and transparency to JSRs



# JCP 2.5 Licensing Rules

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```

- **Spec must have spec license, required:**
  - Completely implement spec
  - No sub-, supersetting in java, javax name space
  - Must pass TCK
- **Required RI, TCK terms:**
  - Allow independent implementations
  - TCK must be licensed separately from RI
  - TCK available at no cost to qualified not-for-profits and individuals
- **At Spec Lead's discretion:**
  - Whether to use open source license for RI, TCK
- **No parallel copyright grant to Sun**



# JCP 2.6, Upcoming Changes

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- **JCP 2.6 will improve communication efficiencies and invite broader community and public participation**
  - All draft reviews will be made public, and public feedback will be actively solicited
  - Anyone interested will be able to more closely monitor the development and status of a JSR throughout its lifecycle, including decisions the EG has made along the way
  - Spec Leads will have a greater responsibility to provide timely, accurate information to the community and to the ECs
  - The ECs will have new guidelines to help make each RI & TCK easier to understand, implement and administer

# Questions?

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```

## **The JCP program: Community development of Java technology specifications**

*SD Times 100, June 2003*

*JavaPro Award, March 2002*

*“ Outstanding contribution to the growth of the Java developer  
community”*

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<http://JCP.org>

