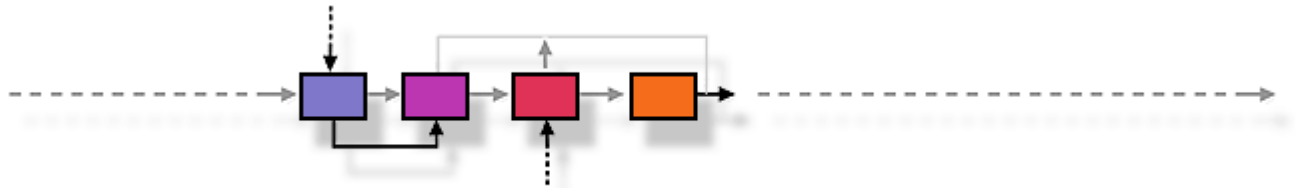




Java
Community
Process



JSR 363 Public Review Spec Lead Report

January 21 2016

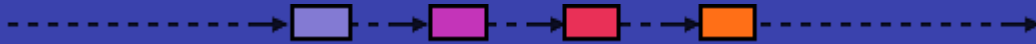
Jean-Marie Dautelle, Werner Keil,
Leonardo Lima

Agenda



- Introduction
- History
- Scope, Features
- Publicity, Collaboration
- Participation
- Issue Tracker
- Questions, discussion, next steps

About this JSR



- A framework supporting robust representation and correct handling of quantities.
 - For example, it may be unclear whether a person's mass is expressed in pounds, kilograms, or stones.
- JSR 363 established safe and useful methods for modelling physical quantities.
- Interfaces and abstract classes supporting unit operations including
 - Checking of unit compatibility
 - Expression of measurement in various units
 - Arithmetic operations on units
- Concrete classes implementing standard unit types (base, derived) and unit conversion.

History



- List the significant dates in the history of JSR 363.
 - Submitted: March 11, 2014
 - Creation approved: April 7, 2014
 - EDR finished: January 27, 2015
 - Public Review: November 18, 2015 thru January 11, 2016
 - Currently in Public Review Ballot until January 25, 2016

The Expert Group



- The JSR 363 EG has members from every continent except Antarctica (or Australia)
 - V2COM, 4 JUGs, individuals (several of them working at large companies like Airbus, IEM, *JP Morgan* or open-source groups like GeoAPI)
- The EG operate via Mailing lists, hangouts/calls at least every quarter, F2F either at EC meetings or events like JavaOne
- Mailing lists, JIRA are used as collaboration tools to facilitate EG communications

Publicity



- DevoXX UK 2015
 - Hackergarten
 - [Interview for Voxxed](#)
 - [Session during conference](#)



Publicity (2)



- [Session at Devoxx BE 2015](#)
- JavaOne LA 2015
 - Session
 - Hackergarten



Publicity (3)



- JavaOne SF 2015
 - Voted Most Significant JSR of 2015
 - Hackergarten



Collaboration with other community groups



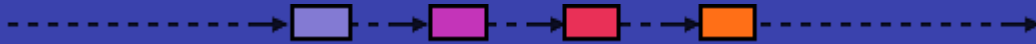
- There is collaboration and exchange in particular with
 - GeoAPI / GeoTools
 - JScience
 - Eclipse (Science WG, UOMo and others, especially current users of either Unit-API 0.6 or JSR 275)
 - ICU (Unicode Organization)
 - OpenJDK / Project Kona as a potential collaboration in the future

Implementations



- Several implementations (apart from the RI) exist:
 - Java SE 8 port:
<https://github.com/unitsofmeasurement/uom-se>
 - Lightweight implementation using Enums:
<https://github.com/unitsofmeasurement/uom-impl-enum>
 - Eclipse UOMo: <http://www.eclipse.org/uomo/>
(subject to CQ for JSR 363)
 - JScience 5: <http://www.jscience.org/> (planned)

Schedule



- The expected schedule to completion of the JSR, with milestones and JSR stages, is:
 - Dec 2014 – January 2015: Early Draft
 - Dec 2015 – January 2016: Public Draft
 - Q2/2016: Final Draft
 - Q3/2016: Final Release

RI and TCK development



- We are developing the JSR collaboratively through <http://unitsofmeasurement.github.io>
 - Committers: 4 EG Members (desruisseaux, keilw, leomrlima, otaviojava)
 - 20 GitHub and 16 java.net users contribute to wider project (SE port, demos, JSON-, QS integration, etc.)
- The RI is available for public download on <https://github.com/unitsofmeasurement/unit-ri> and on public repositories like JCenter or MavenCentral
- The TCK is available for public download on <https://github.com/unitsofmeasurement/unit-tck>
- The source-code repository is at <https://github.com/unitsofmeasurement>

Adopt-a-JSR



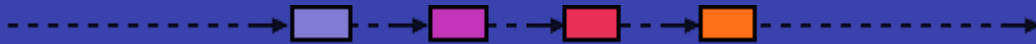
- We are participating in the Adopt-a-JSR program
- 4 JUGs / their members have so far joined the EG:
 - Morocco JUG
 - SouJava
 - JUG Chennai
 - JUG Hyderabad
- Especially SouJava / Otavio continues to help a lot also with active contributions to API, RI or the Java SE 8 port.

Mailing lists or forums



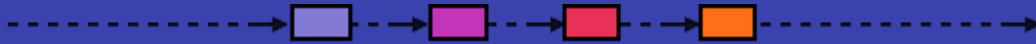
- We communicate with the public and they can communicate with us using:
- Public mailing list(s) and/or forum(s)
 - Units-Dev on Google Groups:
<https://groups.google.com/forum/#!forum/units-dev>
 - Units-Users on Google Groups:
<https://groups.google.com/forum/#!forum/units-users>
 - EG only mailing list on java.net, archive fully visible:
<https://java.net/projects/unitsofmeasurement/lists/experts/archive>
- Total number of messages, threads?
 - 107 topics on units-dev, 100+ on units-users
 - The EG list has approx. 50-100 messages per month.

Issue tracker



- Total number of issues?
177
- How many in each state (open, closed, deferred, etc.?)
 - Open 21 (12%)
 - In Progress 8 (5%)
 - Reopened 1 (1%)
 - Resolved 137 (77%)
 - Closed 10 (6%)
- Some issues are also filed either on GitHub, via Gitter or Mailing lists (especially if participants have no Java.net or JIRA account) and adjusted appropriately

Document archive



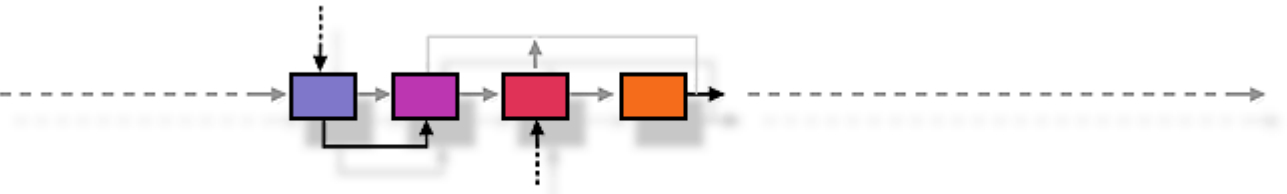
- Our document archive, where meeting minutes and materials are published, is at <https://java.net/projects/unitsofmeasurement/downloads>
- Other materials are available for download:
 - Milestone (e.g. EDR, PR) of the Spec
 - Snapshot release of the Spec with changes since the last milestone
- Most presentations are made available on sites like SlideShare



Questions, discussion, next steps



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Thank you!

<http://jcp.org/en/jsr/detail?id=363>