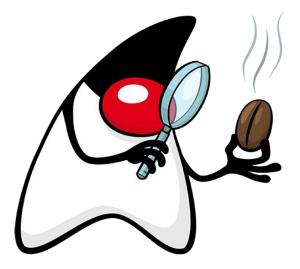


JSR 380 Public Review Spec Lead Report

May 9 2017

Gunnar Morling, Red Hat





- Overview on Bean Validation 2.0
- Working with the expert group and the community
- Questions & discussion



About Bean Validation

- Bean Validation 1.0/1.1
 - Annotation-based API and metamodel for applying constraints to Java objects
 - Java SE and EE
 - Integrated with JPA, CDI, JAX-RS, JSF etc.
- Bean Validation 2.0: Embrace Java SE 8
 - Support API additions
 - Take advantage of language additions

"Constrain once, validate everywhere!"





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- JSR 303/Bean Validation 1.0: 2009 (Java EE 6)
- JSR 349/Bean Validation 1.1: 2012 (Java EE 7)
- JSR 380/Bean Validation 2.0
 - Submitted mid 2016
 - Early Draft: February 2017
 - Public Review: April 2017
 - Planned Final Submission: July 2017



JSR 380 - Technical scope and features

• Support Java 8 API additions

- New date + time API
- java.util.Optional
- Benefit from language additions
 - Type annotations
 - Repeatable annotations
 - Default methods



JSR 380 - Technical scope and features

Validation of container elements

- java.util.Iterable,Map
- java.util.Optional
- Your custom container types
- JSR 310 types supported for @Past/@Future
- New built-in constraints
 - @Email, @NotBlank, @NotEmpty
 - @Positive, @Negative
- Constraints marked with @Repeatable



JSR 380 - Technical scope and features

Example 44. Container element constraints

```
private List<@Email String> emails;

public Optional<@Email String> getEmail() {
   [...]
}

public Map<@NotNull String, @ValidAddress Address> getAddressesByType() {
   [...]
}

public List<@NotBlank String> getMatchingRecords(List<@NotNull @Size(max=20) String>
searchTerms) {
   [...]
}
```



The Expert Group

Team

Specific	ation Leads		
	Gunnar Morling	Red Hat	
Expert (Broup		
	Canoo AG : Hendrik Ebbers	Fujitsu Limited : Tsuyoshi Yoshitomi	Genidea Sagl : Marco Molteni
	ingenit GmbH & Co. KG : Christian Kaltepoth	Werner Keil	Oracle : Linda Demichiel
	Red Hat : Emmanuel Bernard	Red Hat : Gunnar Morling	Otavio Santana
	Michael Nascimento Santos		

- Experts from JSR 310, JAX-RS, JavaFX, Java EE
- Open for contributions by everyone



The Expert Group - Working together

- Operating the open source way
- Discussing on the mailing list
- GitHub pull requests
- Proposals on the website
- F2F discussions at conferences
- EVERYTHING is open source and public



Publicity

• Sessions at conferences such as Devoxx US, JavaLand, RivieraDev, jdk.io

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• "Adopt-a-JSR for Java EE"



Publicity

- Community surveys on <u>http://beanvalidation.org</u>, asking for feedback on Twitter
- <u>http://javademo.io/bv-list-email</u>

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	Java EE 8 Demo Home 🗮 Conferences Bean Validat	ion • CDI • Tutorials (Easy) • WebSocket •
	Collection validation	
	Email Email 1	
	Email Email 2	
Where do you use constraints and	Email Email 3	
generics?	Submit	
How likely would you use constraints on collections? e.g. Collection-@Email String>		
1 2 3 4 5 6 7 8 9 10	Java code	Request JSON:
not likely	[GitHub link]	
How likely would you use constraints on Optional ? e.g. Optional<@Email String-getUserEmail();	<pre>public class Addresses { @Size(max = 2)</pre>	Response JSON:
1 2 3 4 5 6 7 8 9 10	<pre>private List<@Email @NotNull String> emailList new ArrayList<>();</pre>	=
not likely		
If you're using Java FX, how likely would you use constraints on Java FX properties? e.g. @Min() integerProperty ega.cor Property-@Min(0) Integer> age;		



Collaboration with other community groups

• JSRs

- One of JSR 310 (Java Time) leads is part of EG
- Collaborating with JSR 370 lead (JAX-RS 2.1)
- Reached out to Ceylon team
- Fixed an integration issue with the Java EE platform spec
- JavaFX



Implementations

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an Valid	ation			
		News Spe	ecification TCK RI Certified Co	ontribute Licensi
Certi	fied Bean Validatio	on 1.1 compat	ible implementations	
	Name	Version	URL	RI
	Hibernate Validator	5.1.1.Final	http://hibernate.org/validator/	0
V	Apache BVal	1.1.2	http://bval.apache.org/	
Copyright	(c) Red Hat, Inc., Emmanuel Bernard			🤍 redhat.

• Hibernate Validator 6: RI for Bean Validation 2.0





- Public Review until May 27th
- Public Review Ballot May 30th June 12th
- Proposed Final Draft: Second half of June
- Submission for Final Approval Ballot July
 Ship with Java EE 8



IP flow

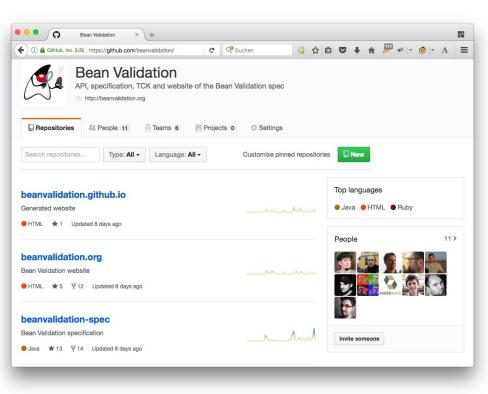
- Bean Validation uses Dual Licensing since 1.0
 - Specification, API, TCK, RI provided under the Apache Software License 2.0
 - Specification, API, JavaDoc additionally available under the JCP click through license
- Open for contributions by everyone
 - Applying CLA



RI and TCK development

- Development fully based on open source principles
- Source code on GitHub
 - http://github.com/beanvalidation/
 - https://github.com/hibernate/hibernate-validator
- Binaries on

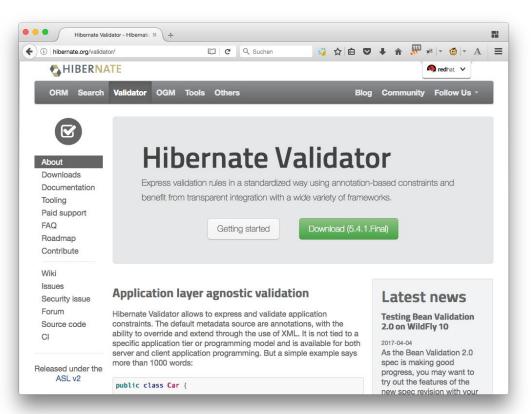
Maven Central





Other deliverables

- Provided by the RI (<u>hibernate.org/validator</u>):
 - Extensive reference guide
 - Example projects
 - -FAQ







- Discussed some questions with Medellin JUG
- Java EE demo built by Marco Molteni



Mailing lists or forums

• Mailing list

- <u>http://lists.jboss.org/pipermail/beanvalidation-dev/</u>
- Primary communication channel
- Open to everyone
- $-\sim 65$ threads for BV 2.0
- $-\sim$ 35 messages per month
- Forum
 - <u>https://forum.hibernate.org/viewforum.php?f=26</u>
 - Not used as much

• Also discussions on GitHub pull requests



Issue tracker

• <u>https://hibernate.atlassian.net/projects/BVAL</u>

- 84 issues for 2.0.x
 - Open: 11
 - In Progress: 0
 - Reopened: 0
 - Resolved: 5
 - Closed: 73
- Website issues handled separately



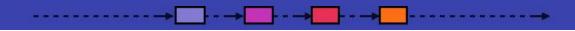
Document archive

• All spec revisions at

http://beanvalidation.org/specification/

- Drafts
- Diff to previous versions
- API diffs
- Original proposals at http://beanvalidation.org/proposals/

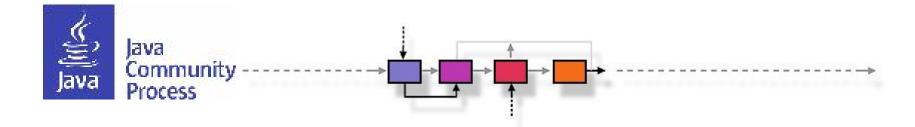




Questions & Discussion







Thank you!