JSR 362 Review

September 16, 2016

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• What is a Portal?

• A java-based web application that aggregates portlet output to produce a web page
• Provides the portlet container runtime environment for portlet applications
• What is a Portlet?

• A java-based web application expressly designed to produce markup fragments for integration into a web page
  – Similar to a servlet, but extends servlet ideas
• Each portlet is an independent application
  – Portlets do not require knowledge about other portlets or content on the page
  – Maintain render state and generate markup independently of other applications
  – Execution model allows portlets to work independently
    • But also exchange data through standardized mechanisms
• Uses a standard Portlet API defined by the Portlet Specification
The Portlet API

- Portlet API and associated semantics standardized through the JCP
  - JSR 168 Portlet Specification 1.0 (2003), JSR 286 Portlet Specification 2.0 (2008)
  - **Today**: JSR 362 Portlet Specification 3.0
- API implemented by the portal or portlet container
- Provides services to portlet on the server
• The Portlet API

• Allows the portlet to set and retrieve its render state
  – The portal manages the render state of the overall page

• Allows the portlet to create URLs targeting itself
  – Action URL: used for forms posted to the portlet (HTTP POST, 'unsafe' operation)
  – Render URL: used for links within portlet (HTTP GET, 'safe' operation)
  – Resource URL: used for Ajax requests within the portlet (potentially any operation)

• Allows the portlet to store configuration data
  – Portlet Preferences

• Allows portlets to coordinate with one another
  – Shared render parameters
  – Portlet events

• Produce markup and resources in an Ajax paradigm
  – Portlet Hub JavaScript API
  – Resource Request
Main goal is to provide an update to JSR 286 Portlet Specification 2.0
- JSR 286 was completed in 2008
- Modernization of the portlet specification

Align with improvements in Java EE 7
- As opposed to JEE 1.4 for JSR 286

Improve client-side support
- Introduce JavaScript API to access portlet parameters and create URLs on the client
- Allow portal pages to behave as single-page apps

Address API usability questions & errata from JSR 286
- Improve parameter handling
- Programming model improvements
Why do this JSR?  
- To modernize the portlet programming model

What's the need?  
- Provides portlet developers and portal vendors with a more modern API and capabilities

How does it fit in to the Java ecosystem?  
- The portlet programming model extends the servlet model by allowing independent portlet applications to be aggregated together on the same portal page

Is the idea ready for standardization?  
- It's more a question of whether modernization is necessary  
- I would argue that it is, in order to allow portlet developers to use modern features contained in later Java EE releases
History

• List the significant dates in the history of the JSR.
  – When submitted?
    • 23 March 2013
  – What stages reached? (end dates)
    • Early Draft Review: 2 12 Sep, 2016
    • Early Draft Review: 07 Jan, 2016
    • JSR Renewal Ballot: 2 11 May, 2015
    • JSR Renewal Ballot: 10 Feb, 2014
    • Expert Group Formation: 16 Apr, 2013
    • JSR Review: Ballot 25 Mar, 2013
    • JSR Review: 11 Mar, 2013
  – What drafts of the Spec published?
    • See above
    • Public Review Draft planned for submission shortly after F2F Meeting on 21 Sept 2016
      – Should be essentially final
The Expert Group

• Who is on the EG and who do they represent?
  – Companies: IBM, Oracle, Liferay, Red Hat, Vaadin
  – Organizations: Apache Portals representative
  – Individuals

• How does the EG operate? How often does it meet and how (teleconferences, online, f2f?)
  – Target: Weekly conference call with webex
  – Reality: Around 2/3 of the planned calls take place
    • Can be cancelled if conflicts / no topics

• What collaboration tools are used to facilitate EG communications?
  – The mailing lists, document repository
Other deliverables

• Other than Spec, RI, and TCK are you delivering, for example:
  – Additional documentation?
    • No formal plans
  – User's guide?
    • No formal plans
  – Sample code?
    • The Apache Pluto Reference Implementation contains sample portlets demonstrating all features
  – FAQ?
    • No formal plans
  – Other artifacts?
    • No formal plans
Collaboration with other community groups

- Are you working with other community groups or organizations?
  - Apache Foundation, Apache Portals group
- If so, describe the collaboration activities and the results (with URLs where appropriate.)
  - The Apache Pluto RI & TCK for the portlet container
Implementations

• How many implementations (apart from the RI) exist?
  – Unknown
  – Companies implementing JSR 286: IBM, Oracle, Liferay, eXo platform, Red Hat (JBoss, eXo Platform)
Schedule

• EG F2F 21 Sept 2016
• Public Draft Submitted 30 Sept 2016 (30 days)
  – Expect few comments, as we've already had 2 EDRs
• Proposed Final Draft submitted 31 Oct 2016 (30 days)
• RI Complete today
• TCK complete 31 Oct 2016
  – However, there are many tests, may be defects / invalid TCs
  – Will define mechanism to contest & ignore or fix bad TCs
• Spec reaches final state December 2016
• Provide pointers to the licenses for the Spec, RI, and TCK.
  – RI: http://www.apache.org/licenses/LICENSE-2.0.html
  – TCK: http://www.apache.org/licenses/LICENSE-2.0.html
• How are you handling contributions from non JCP members?
  – Contributions to the RI & TCK are handled by Apache under the Apache Contributor Agreement
• What Terms of Use apply to your collaboration tools?
  – The terms of use for the java.net site
• Do you have a Contributor Agreement?
  – Yes, with the Apache Foundation for the RI and TCK
• Any legal issues or concerns?
  – no
RI and TCK development

• How are you developing the RI and TCK?
  – Collaboratively through the Apache Pluto Project

• If collaboratively (through an open-source project)
  – How many committers and who?
    • The list of contributors is long; however, there are about 4 active committers
  – How many apart from the Spec Lead (organization)?
    • 3 – Apache, Liferay, and a private person

• Is the RI available for public download? Is the TCK available for public download? Do you have a source-code repository? (If so, provide URL.)
  – Yes for both: https://github.com/apache/portals-pluto
Participation and transparency

- Provide a pointer to the JSR page on JCP.org

- Provide a pointer to the “JSR project website” (eg, on Java.net.)
  - https://java.net/projects/portletspec3
Adopt-a-JSR

• Are you participating in the Adopt-a-JSR program?
  – No, sorry ☹

• If not, why not?
  – I tried, but did not locate an interested Jug initially, and then became too busy
Mailing lists or forums

• How are you communicating with the public and how can they communicate with you?
  – There is communication through the mailing lists
  – jsr362-experts@portletspec3.java.net
  – jsr362-observers@portletspec3.java.net

• Total number of messages, threads?
  – 624 messages since inception

• Total number of participants (EG members, non-EG members?)
  – EG members: 13
  – non-EG participants: 39 followers (most are passive)

• How many messages per month (from Spec Lead, EG members, and non-EG members?)
  – Depends strongly on topics discussed ... Maybe 15 / month on the average
Issue tracker

• Total number of issues?
  – 76

• How many in each state (open, closed, deferred, etc?)
  – All are currently resolved

• Average number of issues logged per month? Average number of issues resolved per month?
  – Very sporadic

• How many different people logged them?
  – Maybe 5

• How does this break down between Spec Lead, EG members, and non-EG members?
  – Spec lead: 58, Others: 18
Document archive

• Provide a pointer to your document archive.

• Are meeting minutes and materials published?
  – Many of them are, but lately I've been somewhat inconsistent
  – [https://java.net/projects/portletspec3/pages/MeetingMinutes](https://java.net/projects/portletspec3/pages/MeetingMinutes)
  – And related pages in the wiki

• What other materials are available for download?
  – Early spec drafts, individual spec chapters, early proposals, presentations for discussion, tech prototypes for RI

• Total number of files available for download?
  – Maybe 50 currently ... But I have been deleting older things that have been superceded

• Average number of new files available for download each month?
  – Sporadic, depends on the activity
Other transparency and participation metrics

• Provide information – including metrics – about any additional transparency and participation mechanisms you use.
  – None
Thank you!
http://jcp.org