JSR 377
Desktop Application Framework
May 24th 2018
Andres Almiray
Agenda

• Goals
• Information to be gathered
• Implementation notes
• Issues
• Questions, discussion, next steps
Goals
Goals

- Define APIs that can be used to build Java Desktop (and possible mobile) applications.

- Inspired in previous efforts such as JSR 296 (Swing Application Framework) and JSR 295 (Beans Binding)

- JSR 377 does not target a single UI toolkit. It should be possible to use existing toolkits such as Swing, JavaFX, SWT, Apache Pivot, Lanterna, others.
Information to be gathered
About this JSR

• Provide the following features
  application life cycle
  localized resources (and injection)
  persisted session state
  loosely coupled actions
  dependency injection
  event system
  centralized error management
  extension points via plugins
Introduction

- JSR 193 – Client Side Container
- JSR 296 – Swing Application Framework
- JSR 295 – Beans Binding

- JSR 296 had the following goals
  - application life cycle
  - localized resources (and injection)
  - persisted session state
  - loosely coupled actions
  - targeted only Swing for obvious reasons
• Why do this JSR?
  – Desktop application development can benefit from lessons learned by JavaEE standardization.

• What's the need?
  – Applications can’t share code/components unless they are written using the same base platform (NetBeans, RCP, Eclipse RCP, homegrown).

• How does it fit in to the Java ecosystem?
  – Desktop applications are still being built.

• Is the idea ready for standardization?
  – UI toolkits and desktop platforms are mature enough.
• List the significant dates in the history of the JSR.
  – Submitted on 29 Dec, 2014.
    16 Feb, 2016
    14 Mar, 2017
  – API drafted.
  – TCK at 50% completion.
  – Work on RI started.
  – Spec document in progress.
Technical scope and features

- API targets JDK8 byte code, originally targeted JDK 7.
- The API is independent of any UI toolkit at its core but provides hooks for specific implementation, such as the case of handling the particulars of the UI thread.
- All original features proposed by JSR-296 are in scope.
- JSR-295 has been superseded by JavaFX bindings.
The Expert Group

- The EG is comprised by Java Champions, JavaFX experts, NetBeans Dream Team member, and other interested parties.

- The EG discusses ideas using the mailing list, GitHub issues, Gitter (online chat) and occasional face-to-face meetings at conferences and JUG events.
Other deliverables

• Other than Spec, RI, and TCK are you delivering, for example:
  – Additional documentation
  – User's guide
  – Sample code
Publicity

- GeekOUT
- Soujava Online
- JVM MX
- JavaOne
Implementations

• How many implementations (apart from the RI) exist?
  – None yet
Schedule

• Indicate the expected schedule to completion of the JSR, with milestones and JSR stages.
• Provide pointers to the licenses for the Spec, RI, and TCK.
  – Apache v2 License
• How are you handling contributions from non JCP members?
  – Apache v2 License
• What Terms of Use apply to your collaboration tools?
  – None
• Do you have a Contributor Agreement?
  – Yes
• Any legal issues or concerns?
  – None at the moment
RI and TCK development

• How are you developing the RI and TCK?
  – In the open using the Griffon framework as testbed
• If collaboratively (through an open-source project)
  – How many committers and who?
    • Andres Almiray, Alexander Klein
• Is the RI available for public download?
  – http://github.com/griffon/griffon (not yet retrofitted with jsr377-api)
• Is the TCK available for public download?
  – Yes
• Do you have a source-code repository?
  – https://github.com/jsr377
Participation and transparency

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

• Are you participating in the Adopt-a-JSR program?
  – Not yet.

• If so, what kind of contributions/help have you received and from whom/which JUGs?
  – We have received a handful of contributions at Hackergarten meetings in Basel, Zürich, Luzern, and JavaOne.
Mailing lists or forums

• How are you communicating with the public and how can they communicate with you?
  – http://jsr377.github.io/site/
  – https://twitter.com/jsr377

• Provide pointers to public mailing list(s) and/or forum(s)
  – http://jsr377-api.40747.n7.nabble.com/

• Total number of participants (EG members, non-EG members?)
  – 20
• Total number of issues?
  – 6
• How many in each state (open, closed, deferred, etc?)
  – 4 open, 2 closed
• Average number of issues logged per month?
  – 0
• Average number of issues resolved per month?
  – 0
• How many different people logged them?
  – 3
Questions, discussion, next steps
Thank you!
http://jcp.org