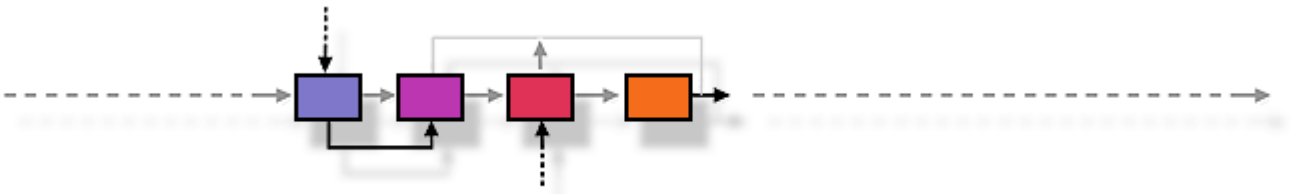




Java
Community
Process

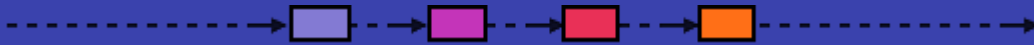


Java™ Microedition Embedded Profile (MEEP) – JSR-361

May 14 2013

Volker Bauche (SpecLead)

About this JSR



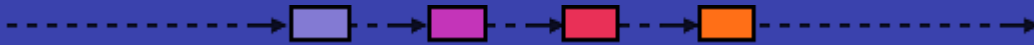
- Update of the Information Module Profile NG (JSR-228) in order to conform to recent requirements of the Embedded Market
- Improvement of application model
- Introduction of several new APIs on an optional package base
- Prepare adjustment with Java SE

Introduction



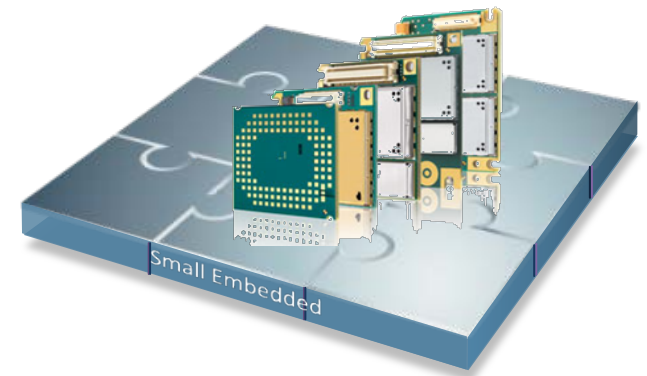
- Target platform: Java ME
- Underlying configuration: CLDC-8 (standard under construction in parallel)
- Satisfies special needs:
 - MIDP is not flexible enough for embedded devices in the M2M area
 - Full Java platform is too large for most embedded devices

Business/marketing/ecosystem justification

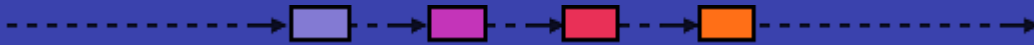


- Challenges of Small Embedded Market

- Robust
- Long-life remote operation
- Highly integrated
- In-market values-add
- Intelligence
- Low footprint / power aware
- Up-stack value
- Economies of scale
- Separate HW / SW dependence

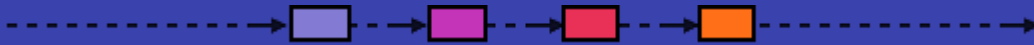


History



- Submitted: JavaOne SF September 2012
- Stages so far:
 - JSR Review Oct 2-15, 2012
 - JSR Review Ballot Oct 29, 2012
 - EG Formation
- Start of EG work delayed
 - Legal issues to be clarified (usage of IP of other JSRs like IMP-NG and MIDP 3)
 - Analysis of the market requirements had to be finished

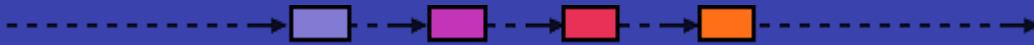
Technical scope and features (1)



- Scope of “Embedded” has grown heavily since the times of IMP and IMP-NG
- New capabilities = New Requirements
- Optionality
 - High-end devices with sophisticated features vs.
 - Low-end modules with huge number of units, very limited memory and the necessity to be cheap
 - Provisioning not always a MUST
- Long-life remote operation
- Separate HW / SW dependence



Technical scope and features (2)



- New

- Line-oriented Display API
- Event Management (adopted from MIDP 3)
- Power Management
- Cellular Network Management
- Extended SW (Application) Management
- Inter-Application Communication (adopted from MIDP 3)
- Services
- Concurrency and LIBlets (as in MIDP 3)



- Improved

- Record Management System (RMS)
- Application Lifecycle



The Expert Group



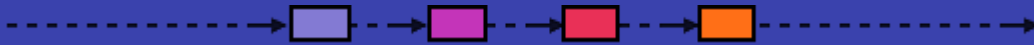
- EG is small, but representative
- Adepts of the ecosystem and good contributors
 - Cinterion (IMP-NG)
 - Aplix (MIDP 3)
 - Noth Sixty-One (in charge for Nokia JSRs)
 - 2 individuals
- So far two meetings (telco) to discuss requirements and speclead specification draft
- Collaboration Tools:
 - JCP Site (including EG private area)
 - JSR Project website (java.net)

Publicity



- Oracle Open World / JavaOne San Francisco 2012
 - "CON2984 – IMP.next: A Profile for an Embedded World with Increasing Demands"
 - https://oracleus.activeevents.com/connect/sessionDetail.wv?SESSION_ID=3984
- Submitted Session application for Oracle Open World / JavaOne San Francisco 2013 as well
- Legwork about JSR-361 for Werner Keil's contribution at GeeCON

Collaboration with other community groups



- Close collaboration with JSR-360 “CLDC-8” as this becomes our underlying configuration
 - EGs have a large intersection
- Potential collaboration with other, upcoming JSRs
 - Peripheral I/O?
 - Maintenance Release SATSA?

Schedule



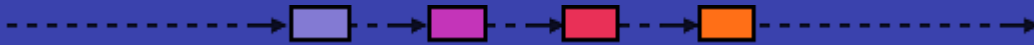
- Early Draft Review: July 2013
- Public Review: September 2013
- PR Vote: November 2013
- PR Approval: December 2013
- Final Draft: January 2014
- Final Release: February 2014

RI and TCK development



- RI and TCK are developed by Oracle engineering
- No open-source project

Participation and transparency



- JSR page on JCP.org
 - <http://jcp.org/en/jsr/detail?id=361>
- Pointer to the “JSR project website” (Java.net.)
 - <https://java.net/projects/jsr361/pages/Home>

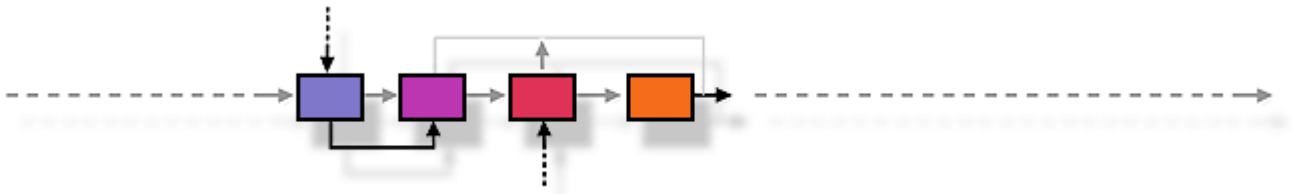
Mailing lists or forums



- Java.net project has an observer mailing list where everybody can register
 - `jsr361-observers@jsr361.java.net`
- The complete communication of the expert group (using the EG alias) is forwarded to this observer mailing list
- There is also a mailing list for providing issues
 - `issues@jsr361.java.net`



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Thank you!
<http://jcp.org>