



# **OSGi Alliance Community Event**

**Enterprise Expert Group Update  
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# Status Report

- **Kickoff meeting end of January in Dublin, several RFPs for enterprise features. Discussed thoroughly May 14-15 F2F and on the email list. Several members contributed, work is progressing well. RFPs revised for June 28 F2F, hope to send for approval and start the design phase.**
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- **Total number of RFPs is now 13, including:**
  - **How Spring and OSGi work together**
  - **Security considerations for combining vendor supplied and user developed bundles**
  - **Discovery of OSGi service from outside of the OSGi framework**
  - **Interworking with systems external to OSGi**
  - **Enterprise use of Web applications**
  - **How various JEE components work together with OSGi**
  - **Whether access to databases is different for enterprise**
  - **A common framework booting mechanism**
  - **How SCA and OSGi work together**
  - **Class loading and marshaling issues with serialized message content**
  - **Additional management capabilities, cooperation with Remote Management EG**
  - **Universal OSGi (also known as multi-language support of OSGi)**
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- **Discussion centers around the extent to which it is appropriate to extend OSGi specifications for distributed computing and enterprise types of features Or whether it is sufficient to define the way in which existing technologies can map to and interwork with current OSGi.**



## Background on EEG

- EEG motivation
  - People using OSGi for enterprise applications
  - Benefit of standardization in this area
- Enterprise workshop Sept. 11 2006
  - Validated requirements
  - Draft charter
- Group approved December 2006
  - Initial meeting January 30 Dublin



## One OSGi or many?

- EEG is about OSGi in less resource constrained environments
  - than home gateways, cars, or mobile phones
  - In other words, “server side” OSGi
- But a lot of server side stuff already exists!
  - JEE, SCA, Web services – some with OSGi
- Can there really be a single OSGi?
  - Initial goal is yes – single OSGi, OSGi is not YAJEEC



## Problem Areas, Potential Solutions

- Dependency Management, Component Model
  - DS, (E)DS, Spring, SCA
- Integration into existing communication infrastructure
  - ESB integration, discovery protocols, web services



## Define new or map existing?

- Lots of enterprise technology exists
  - CORBA, MQ, CICS, Tuxedo, JEE, .NET
  - Databases, commercial Web sites
- Spring-OSGi illustrates one approach
  - Combine the best of both
- SCA-OSGi possibly another approach
  - Working with the SCA folks to define a mapping
- Level of extension the main topic of discussion



## Current status

- Requirements phase – Close out June 28?
- Several work-streams
  - Distributed OSGi
  - Extended lifecycle management
  - OSGi and Spring
  - SCA and OSGi
  - J2EE and OSGi
  - Browsers (“universal OSGi”)
  - Nonfunctional areas



## 13 RFPs now under consideration

- Adapting parts of JEE
  - JNDI, RMI (incl classloading & serialization issues), JDBC, security (combining vendor and user code)
- Interworking with external systems
- OSGI-Spring “marriage”
- SCA mapping (SCA group to do this?)
- OSGi service discovery
- Management, framework booting



## RFP reference list

- 76 - Component model (Spring) –assembly and configuration
- 77 - Relational database access - data access with JDBC
- 78 - Security – for packages and services deployed with system code
- 79 – Service Discovery – including external systems
- 80 – Framework booting – consistent OSGi framework booting
- 81 – OSGi and SCA – Deploy SCA components
- 82 – Framework state management – greater control and consistency
- 83 – Classloading and marshalling –marshaling issues with RMI
- 84 – JNDI –to work with OSGi classloading.
- 85 – Web application support –standard Web applications (e.g. servlets)
- 88 – External systems –interact with external systems
- 89 – Universal OSGi – run native code (e.g. C, C++, or .NET code)
- 90 – remote management –simplify the management of multiple services.