The OSGi™ Alliance: 4 Years and Forward

John R. Barr, Ph.D., President, OSGi Alliance
Motorola, 1303 E. Algonquin Road, Schaumburg, IL 60196 USA
+1-847-576-8706  John.Barr@Motorola.com
Overview of OSGi Members

Global Cross Industry Consortium

OSGi Board of Directors – 2002-3

- Rafiul Ahad, Oracle
- Dan Bandera, IBM
- John Barr, Motorola
- Maurizio Beltrami, Philips Consumer Electronics
- Hans-Werner Bitzer, Deutsche Telekom AG
- Steven Buytaert, ACUNIA
- Carl Cargill, Sun Microsystems
- Young Joo Kim, Samsung
- Jeff Lund, Echelon
- Hans-Ulrich Michel, BMW
- Stan Moyer, Telcordia Technologies, Inc.
- Susan Schwarze, ProSyst
- Staffan Truvé, Gatespace
OSGi Officers – 2002-3

- President, John Barr, Motorola
- VP Marketing, Susan Schwarze, ProSyst
- VP Technology & CTO, BJ Hargrave, IBM
- VP EMEA, Staffan Truvé, Gatespace
- VP Americas, Dan Bandera, IBM
- VP Asia, Lawrence Chan, Echelon
- Secretary, Stan Moyer, Telcordia
- Treasurer, Jeff Lund, Echelon
- Director of Technology, Peter Kriens, aQute
- Executive Director, Deepak Kamlani, Global Inventures
OSGi Fellows

- **BJ Hargrave, IBM Corporation**
  - Member of Java Expert Group
  - Chair of Core Platform Expert Group
  - VP Technology and CTO

- **Peter Kriens, aQute**
  - Member of Java and Core Platform Expert Groups
  - Technical Editor of OSGi Service Platform Release 2 and 3
  - Managed development of test suites for certification program
  - OSGi Director of Technology

- **Dave Marples, Telcordia Technologies, Inc.**
  - Member of Java Expert Group
  - Chair of the Architecture Expert Group
  - Char of the Technology Steering Committee
  - Executive Director of OSGi Alliance
OSGi Board of Directors – 2003-4 (Just Elected)

- Dan Bandera, IBM
- John Barr, Motorola
- Jon Bostrom, Nokia
- Maurizio Beltrami, Philips Consumer Electronics
- Hans-Werner Bitzer, Deutsche Telekom AG
- Carl Cargill, Sun Microsystems
- Ryutaro Kawamura, NTT
- Young Joo Kim, Samsung
- Jeff Lund, Echelon
- Hans-Ulrich Michel, BMW
- Stan Moyer, Telcordia Technologies, Inc.
- Olivier Pavé, Siemens VDO
- Susan Schwarze, ProSyst
OSGi Officers – 2003-4

- President, John Barr, Motorola
- *VP Marketing, Susan Schwarze, ProSyst
- VP Technology & CTO, BJ Hargrave, IBM
- *VP EMEA, TBD
- *VP Americas, Dan Bandera, IBM
- *VP Asia, Lawrence Chan, Echelon
- *Secretary, Stan Moyer, Telcordia
- *Treasurer, Jeff Lund, Echelon
- Requirements WG Chair, Kai Hakbarth, ProSyst

*Up for election
What is the OSGi Alliance?
The OSGi Alliance is an independent non-profit cross-industrial corporation that provides for the fair and uniform creation and distribution of relevant intellectual property – including specifications, reference implementations, and test suites - to all its Members.
OSGi Alliance Focus

- The OSGi Alliance and its Members:
  - Specify and enhance an open service delivery and management software platform called the OSGi Service Platform
  - Promote the widespread industry adoption of the Platform
  - Serve as the focal point for a collaborative ecosystem of service providers, technology, industrial, consumer and automotive electronics communities
OSGi Alliance Timeline

- Founded: March 1999 – 15 Major Companies
- 1\textsuperscript{st} Member Meeting: London, May 1999
- Release 1: May 2000: Connections
- Release 2: October 2001
  - Compliance Program: May 2002
  - 1\textsuperscript{st} Nine Certified Platform Suppliers: August 2002
- 1\textsuperscript{st} OSGi World Congress: Stockholm, September 2002
- Release 3: April 2003
  - Compliance Program and 1\textsuperscript{st} 6 Platform Suppliers: October 2003
- 2\textsuperscript{nd} OSGi World Congress: Düsseldorrf, October 2003
Powerful Benefits for Members of the OSGi Alliance

- Product and Product development
- Supply Quality
- Save Time
- Save Money
- Market and Marketing
Product Development Benefits

- **Shape the OSGi Alliance specification**
  - Work together with more than 40 companies
  - Take a lead in the standardization of a flexible integration platform

- **Utilize the global cross-industry Service Platform**
  - Integrates today's islands
  - Enables cross-industry business models

- **Exchange information in your development community**
  - OSGi Expert Groups
  - Discuss with developers and further develop ideas
  - Improve the product solutions of your organization

- **Benefit from the features of the platform**
  - Modular architecture & Defined interfaces
  - Future-proof platform, connectivity, easy upgrade and extension

- **Certification process provides reliable products**
  - 13 platforms are R2 certified
  - 6+ platforms are already R3 certified
Market & Marketing Benefits

- Gain competitive advantage
  - Think outside of the box
  - Cooperate with more than 40 members
  - Discover new business opportunities and potential markets
- Global reputation of the OSGi Alliance Brand
  - Global awareness
  - Cross-industry publicity in major business fields
- Powerful OSGi Alliance marketing resources
  - Use the various Web Site options
  - Collateral and global marketing events
  - Increase the awareness of your company profile, business or product solutions and deployments
- Improve your market knowledge
  - Use the OSGi Alliance knowledge base
  - Network with people and companies at member meetings
What is the OSGi Service Delivery Platform?

The OSGi Service Platform is an open software standard that provides a **common platform for service providers, device manufacturers, and others to remotely and dynamically deliver, integrate, and manage a rich set of valuable services** to building, home, mobile, vehicle and other environments.

- Release 1 May, 2000
- Release 2 October, 2001
- Release 3 April, 2003
- Publicly available at [www.osgi.org](http://www.osgi.org)
Recent final approval of JSR-197 solidifies OSGi ability to span J2ME and J2SE platforms
Horizontal attributes

- Platform Independence
- Dynamic Software Delivery
- Integration Integrity
- Network Transparency
- Centralized Scalable Management
OSGi Enables End-to-End Solutions

Service Creators & Content Providers
- Custom Information
- Communications
- Entertainment
- Home Security
- Energy Management
- Appliance Control
- Lighting Control
- Irrigation Control
- TBD...

Service Aggregator & Gateway Administrator

Mobile cellular or satellite link

Embedded Services Platform

Internet

Service Provider

Home Network

Home Appliances
- PCs
- Consumer Electronics
- TVs
- Telephones
- Security

Energy Meter
- Sensors
- Security

Embedded Services Platform
OSGi Alliance Impact

- June 2001: Gatespace-Volvo Infotronic Solutions
- September 2001: IBM-Shell Wireless Gas Station
- November 2001: Telia Network Gateway
- July 2002: OSGi & AMI-C Alignment
- October 2002: ProSyst-Telefonica Spain Hogar.es Deployment
- December 2002: Korean Digital Home Summit
- January 2003: OSGi & ERTICO 3GT Collaboration
- January 2003: OSGi Products at CES 2003 (e.g., Philips iPronto)
- April 2003: AMI-C Release 2 Adopts OSGi Release 3
- August 2003: Connected Singapore adopts OSGi for Residential Gateway Reference Design
- October 2003: Korean Digital Home Service Project
- October 2003: OSGi World Congress Announcements ...
**OSGi Impact**

- Our first impact has been with the residential gateway market
  - Telefonica Deployment
  - Telia Network Gateway
  - Korean DNA and Singapore IDA RG reference design
- Our second market impact has been with automotive information and entertainment systems
  - AMI-C adoption
  - BMW 5-series platform
- Our next market impact will be the mobile phone environment …
The Next Generation of Wireless

- Wireless needs a component-oriented, service-based platform
  - Modular architecture for maximum reuse and flexibility
  - Full lifecycle management to support over-the-air provisioning and updates
- Industry alignment around open standards is key
  - Coordinated activity to avoid fragmentation
  - Tied to the needs of the stakeholders:
    - Manufacturers
    - Operators
    - End-users
    - Developers
OSGi for the Mobile Handset

- The time has come for an OSGi-based handset
  - Java has proven its value and is ready for a broader role
  - OSGi is a proven framework to build upon
  - Motorola’s MOTOJUIX platform embodies this approach

- You will hear more about this tomorrow during Thursday’s keynote.
- There will be a Mobile Expert Group discussion tomorrow at lunch.
Conclusion

- OSGi service platform shares a single Java VM to allow multiple application/service bundles to run independently.
- Remote management mechanisms allow network operator to manage provisioning and operation of multiple services.
- The OSGi service platform is the only openly defined specification that supports network delivery of managed services.
- The OSGi service platform is the only Java specification that spans J2SE and J2ME.
Questions?
Join the Leaders
www.osgi.org

OSGi
Bishop Ranch 2
2694 Bishop Drive, Suite 275
San Ramon, CA 94583
tel: +1.925.277.8110
fax: +1.925.277.8111
e-mail: information@osgi.org