



## The OSGi™ Alliance: 4 Years and Forward

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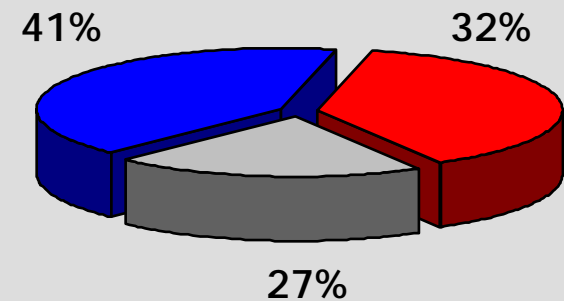


## Overview of OSGi Members

### *Global Cross Industry Consortium*

4DHomeNet, Inc., Acunia, Alpine Electronics Europe GmbH, AMI-C, Atinav, Inc., Belgacom, BMW, Bombardier Transportation, BSI Co., Ltd., Cablevision Systems, Connected Systems, Inc., Deutsche Telekom, Easenergy, Inc., Echelon Corporation, Electricité de France (EDF), Ericsson, Espial Group, Inc., ETRI, France Telecom, Fraunhofer Gesellschaft, Gatespace AB, IBM Corporation, Institute for Infocomm Research, KDD R&D Laboratories Inc., Mitsubishi Electric Corporation, Motorola, Inc., Nokia, NTT, Object XP AG, Oracle Corporation, Panasonic Technologies, Inc., Philips, ProSyst Software AG, Robert Bosch GmbH, Samsung Electronics Co., Sharp Corporation, Siemens VDO Automotive, Sun Microsystems Inc., Telcordia Technologies, Telefonica I+D, TeliaSonera, Texas Instruments, Inc., T-LON GmbH, Toshiba Corporation

OSGi Alliance  
Members by Region



□ Asia/Pacific  
■ EMEA  
■ North/South America



## **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



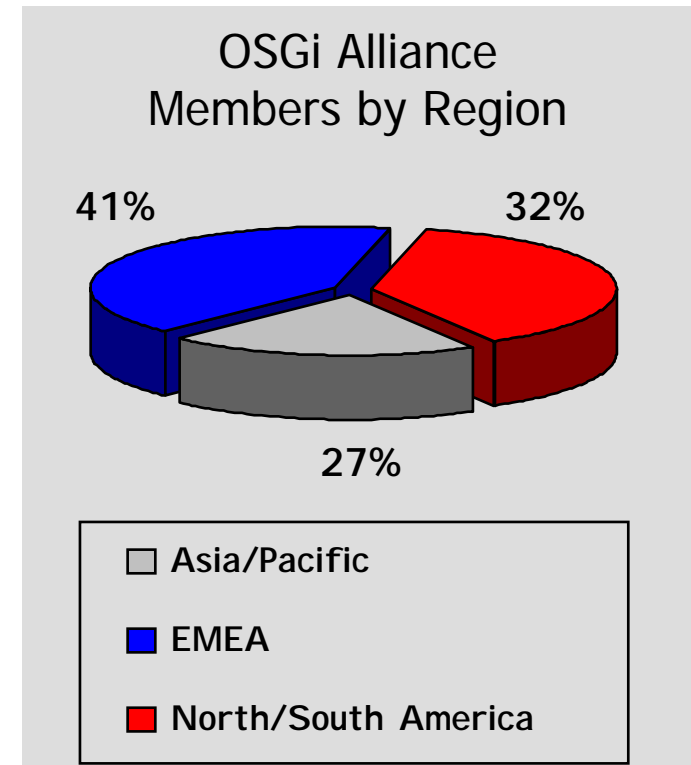
## **OSGi Officers – 2003-4**

- 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<sup>st</sup> Member Meeting: London, May 1999
- Release 1: May 2000: Connections
- Release 2: October 2001
  - Compliance Program: May 2002
  - 1<sup>st</sup> Nine Certified Platform Suppliers: August 2002
- 1<sup>st</sup> OSGi World Congress: Stockholm, September 2002
- Release 3: April 2003
  - Compliance Program and 1<sup>st</sup> 6 Platform Suppliers: October 2003
- 2<sup>nd</sup> OSGi World Congress: Düsseldorf, October 2003



## Powerful Benefits for Members of the OSGi Alliance





## 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



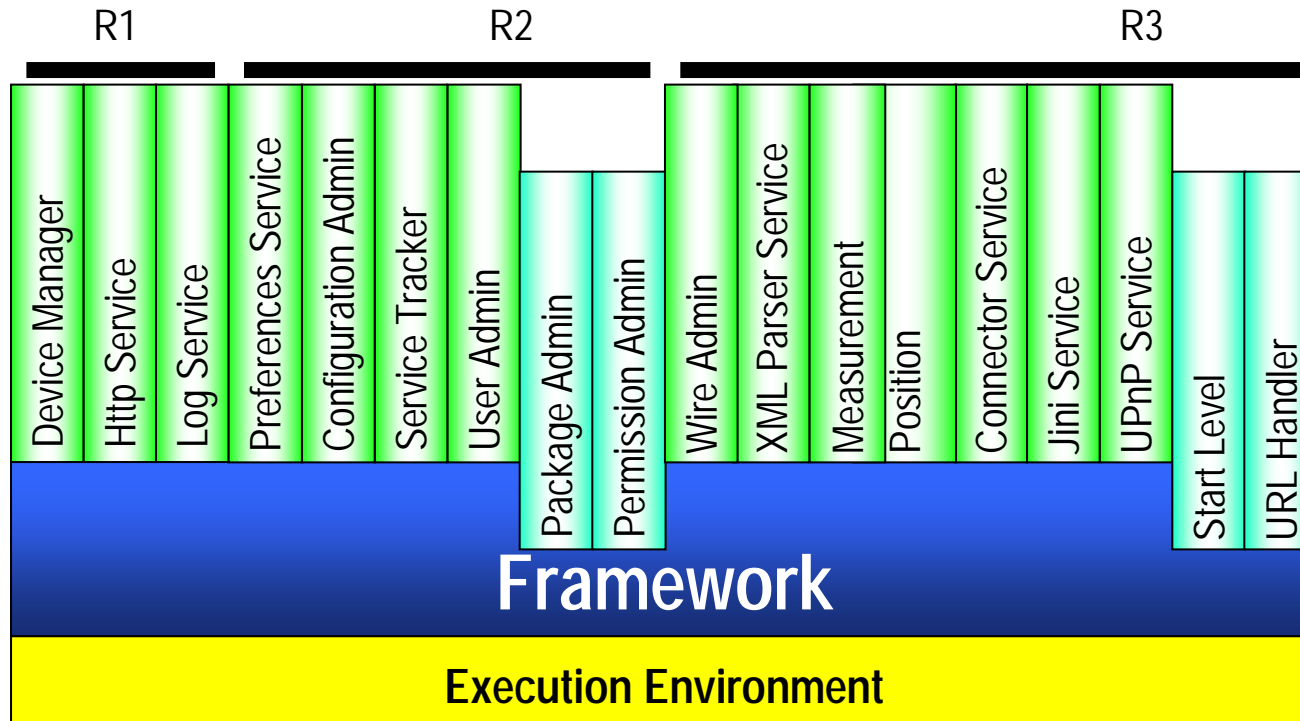
## What is the OSGi Service Delivery Platform?

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)



## Release 3 Specification



Recent final approval of JSR-197 solidifies OSGi ability to span J2ME and J2SE platforms

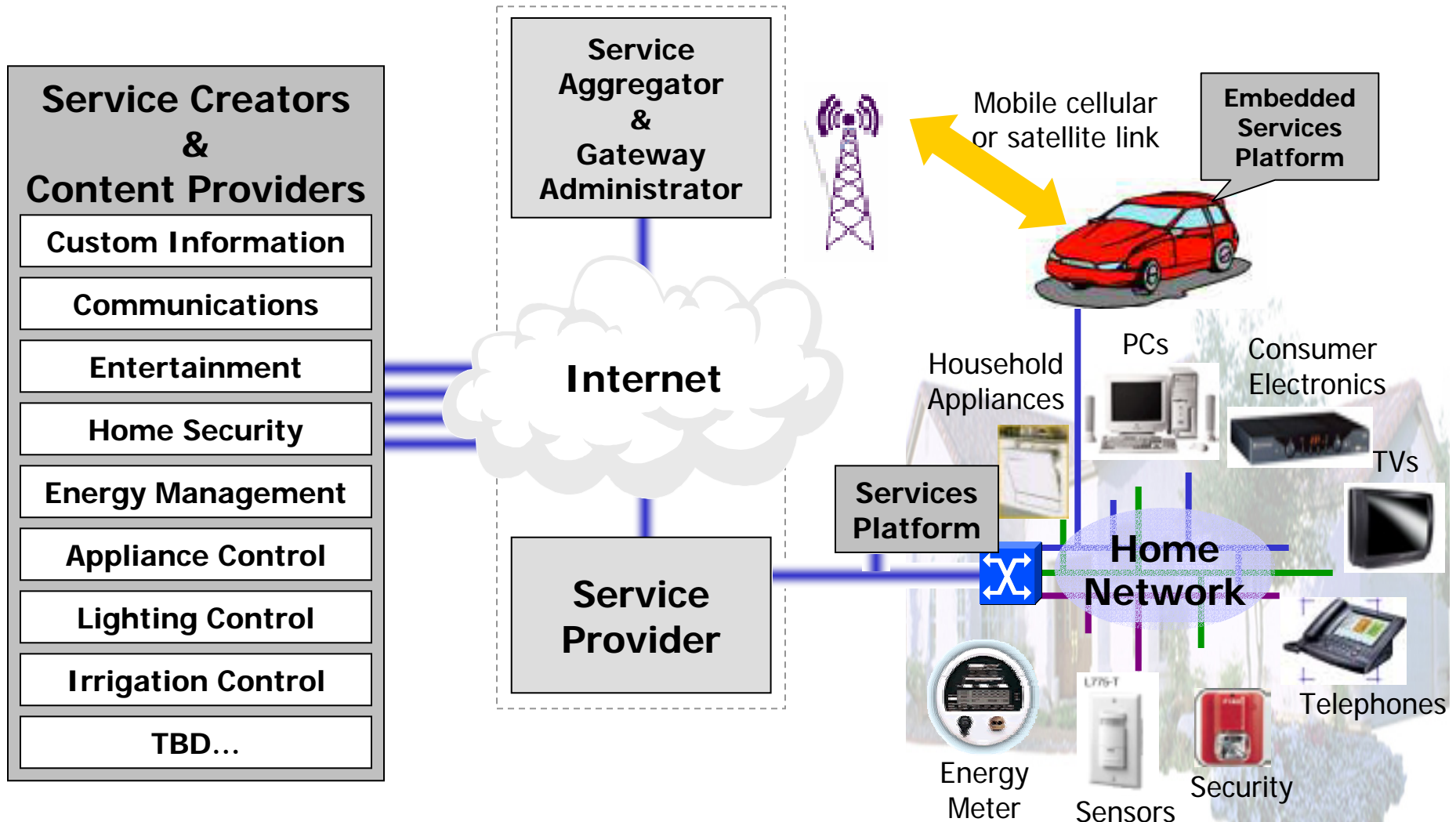


## Horizontal attributes

- Platform Independence
- Dynamic Software Delivery
- Integration Integrity
- Network Transparency
- Centralized Scalable Management



# OSGi Enables End-to-End Solutions





## **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](http://www.osgi.org)

OSGi

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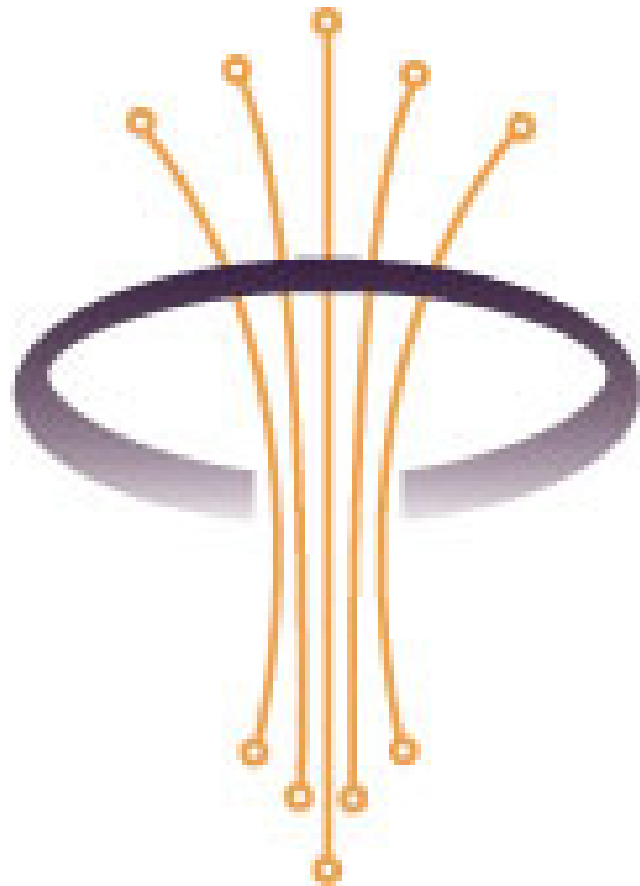
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**OSGi<sup>TM</sup>**  
**Alliance**