



Open Services Gateway Initiative

OSGi World Congress

Promoting the rapid adoption of open specifications for the delivery of managed broadband services to networks in homes, cars and other consumer environments

Tuesday 24th – Friday 27th September 2002
Radisson SAS Royal Viking Hotel, Stockholm



Eminent speakers include:

- **Dr John R. Barr**
President, OSGi
Director, Motorola
- **Claes Nycander**
CEO, Telia Research
- **Per Ljunggren**
CEO, E2Home

- Hear progress reports on commercially compelling OSGi implementations from **Deutsche Telekom, France Telecom, Telia, Telefonica de España and Electricité de France**
- Learn how the OSGi is enabling the growth of the telematics industry: hear from **Audi, BMW, DaimlerChrysler, Ford and Volvo** about their OSGi implementations
- See the advantages of using OSGi framework by assessing a range of end user OSGi product implementations from **Echelon, MetaVector-Siemens, Philips, Bosch and Siemens Hausgeräte and Whirlpool**
- Assess how the **UPnP, DVB and AMI-C** are working with the OSGi on standardisation
- Develop your own OSGi bundle! See inside for details

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www.osgiworldcongress.com

Why should you attend the Congress?

- **Network** with the entire OSGi community, plus those who are keen to understand how the OSGi can help them **capitalise on growing market opportunities**
- **Share best practice and positioning strategies**, hear about the community's successes, learn from the failures and benchmark your developments with your peers
- Gather up-to-date information on the **developing business models** and **marketing strategies** of companies using the OSGi specifications to develop new products, services and applications
- Better understand how the OSGi specification will help you **improve your customer relationship management**
- Meet the OSGi board and question them about what they are doing to **grow the home networking and telematics industries**
- Hear how the **UPnP, DVB** and **AMI-C** are working with the OSGi
- Attend the post-congress workshop to learn how to **develop your own OSGi bundle**
- Hear progress reports from major service providers including **Deutsche Telekom, France Telecom, Telia R&D, Telefonica de España** and **Electricité de France** who are leading the way in smart home development using OSGi
- Examine new and innovative telematics services and hear from **Audi, BMW, DaimlerChrysler, Ford** and **Volvo** about their OSGi applications
- See the advantages of using OSGi framework by assessing a range of end user OSGi product implementations from among others, **Echelon, MetaVector-Siemens, Philips, BSH** and **Whirlpool**

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CABA (the Continental Automated Buildings Association) is North America's key source for information, education, and networking relating to home and building automation. Its mission is to encourage the development, promotion and adoption of business opportunities in the home and building automation industry.

Members include manufacturers, dealers, installers, telecommunications companies, energy utilities, builders, consultants, research organizations, publishers, educational institutions, governments and associations. www.caba.org



The **Consumer Electronics Association (CEA)** represents more than 1000 U.S. corporate members involved in the design, development, manufacturing and distribution of audio, video, mobile electronics, wireless and landline communications, home networking, information technology and accessory products. CEA produces the International Consumer Electronics Show each January in Las Vegas and provides numerous industry services, including technical training and education, industry promotion, engineering standards development, market research and legislative advocacy. CEA's resources are available online at www.CE.org



ERTICO, a multi-sector, public-private partnership pursuing the development and deployment of ITS, exists to promote a single successful pan-European ITS market and to ensure that European interests are fully represented throughout the world. With more than 80 partners across the five ITS sectors (public authorities, industry, infrastructure operators, users, and others), ERTICO brings all key players to one table, with one clear goal: making ITS part of everyone's daily life. Through a varied and comprehensive work programme, ERTICO achieves vital synergies and builds the strategic strength required to move ITS from the development stage through implementation and into the market. www.ertico.com



HAVi is a not-for-profit association of leading consumer electronics, software, semiconductor and computer manufacturers who have joined together to promote a network architecture for Home Audio Video Interoperability. The organisation is promoting the development of products based on the HAVi specification.

The HAVi specification is a consumer electronics (CE) industry architecture that will ensure that digital audio and video devices conforming to this standard, regardless of manufacturer, will be interoperable when connected via a network in the consumer's home. The HAVi architecture is positioned to become a standard technology on consumer electronics devices. HAVi will allow the consumer home network perfection utilising ease of operation and connectivity. www.havi.org



The **HomePlug Powerline Alliance** is an international industry consortium of about 70 member companies. The alliance's mission is to enable the implementation of home powerline networking via products that are cost effective, interoperable and standards-based. The first HomePlug certified products are now shipping and the alliance is focused on promoting rapid availability and adoption of the technology.

For more information, visit www.homeplug.org



ITS Sweden – Swedish R&D achievements and R&D environments are internationally renowned. The high IT-maturity in Sweden forms an adequate platform for the implementation of ITS.

Through co-operation between different user categories ITS Sweden wants to increase and harmonise the use of ITS in Swedish transport systems and make it more efficient. By the use of ITS we expect

to efficiently reach transport policy objectives and user goals and find suitable solutions to existing traffic problems. ITS Sweden is also the natural co-operation partner at the international level. Contact us at: www.its-sweden.com Tel: +46 243 - 618 00: info@its-sweden.com



The **Open Services Gateway Initiative (OSGi)**, established in 1999, is an independent, non-profit corporation working to define and promote open specifications for the delivery of managed broadband services to networks in homes, cars and other environments. OSGi also works to proliferate these open specifications through the sponsorship of technology, market, and user education programs. OSGi's newest specification, the OSGi Service Platform Release 2 is designed to complement and enhance virtually all residential networking standards and initiatives. www.osgi.org



Telematics Valley is an interest organization open for any company active in the area of telematics. In a short 10 months the initiative has attracted upwards of 70 members and partners. Companies participating in Telematics Valley intend to raise attention and spur the development within telematics. Goals include:

- Establish West Sweden as a globally recognized, leading competence cluster
- Attract competences to the region and the involved companies
- Support efficient collaboration between the telematics companies in the region by facilitating cooperation and interaction
- Strengthen the regional focus and support, politically and commercially
- Actively work together with Universities to establish research and education.

www.telematicsvalley.org



WLANA - The Wireless LAN Association is a non-profit educational trade association, comprised of the thought leaders and technology innovators in the local area wireless technology industry. WLANA provides a clearinghouse of information about wireless networking applications, issues and trends and serves as a resource to customers and prospects of wireless networking products and to industry press and analysts. The Association maintains an

educational web site at www.wlana.org with industry studies, white papers, application stories and links to related topics and member web sites. Current WLANA sponsor members include: Broadcom (www.broadcom.com), Cisco Systems (www.cisco.com), Enterasys Networks, (www.enterasys.com), Intermec Technologies (www.intermec.com), Intersil Corporation (www.intersil.com), Planet3Wireless (www.planet3wireless.com) and Signa Services (www.signaservices.com)

Official Publications



Broadband Markets is the only newsletter to cover the broadband content and distribution markets on a global basis. Each issue includes expert analysis on the activities and strategies of broadband content providers and distributors, from TV companies, music publishers and games developers to ISPs/Portals, and telcos. For more information visit: www.baskerville.telecoms.com/broadbandmarkets



Every week, **New Media Markets** provides timely and accurate news, statistics and analysis on digital and interactive television, pay-TV, cable, satellite and terrestrial television, pay-per-view, video-on-demand, t-commerce and new television technology, offering key market information on emerging trends and regulatory changes, giving you the winning edge. For more information visit: www.bookshop.infomedia.com/newmediamarkets

Your Congress Venue

Stockholm, the capital of Sweden, has often been called one of the world's most beautiful cities. Surrounded by the famous archipelago, the city is an enticing mix of genuine history and modern living. The old medieval town has been lovingly restored over the years to fairy tale perfection. The cobblestone streets and pristine facades are home to some of the city's favourite nightclubs, name brand boutiques and art galleries.

The Congress will be held at the Radisson SAS Royal Viking Hotel, which is located in the heart of Stockholm, near to the old town, close to shopping areas and tourist attractions. The hotel is walking distance from the sightseeing boats by which you can tour Lake Mälaren and the beautiful archipelago. So you'll not be at a loss about what to do when the congress ends.

The journey from Arlanda International Airport to central Stockholm is just 20 minutes on the train, which terminates right around the corner from the hotel!

The entire conference will be held at the Radisson *except*, the Closed Members' Meeting (8.50am to 11.00am 24th Sept) and the Congress Day One (11.00am to 6.00pm 24th September), both of which will take place across the road at the World Trade Center Stockholm.



OSGi Inaugural Awards 2002

Wednesday 25th September

The OSGi are delighted to announce their inaugural awards which will recognise excellence in the area of OSGi bundle development and OSGi application development.

Held at a drinks reception on the evening of Wednesday 25th September 2002, at the Radisson SAS Royal Viking Hotel, the Inaugural Awards will be attended by speakers, delegates, OSGi Board and Expert Group members and sponsors of the OSGi World Congress.

Best Bundle

A personal prize will be awarded to the individual who best exploits the capabilities of the OSGi framework and develops THE BEST INNOVATIVE BUNDLE. The competition is open to everyone.

For more information, rules and submission requirements, please go to www.osgi.org/competition/bundle

Best Application of OSGi

A trophy will be awarded for the best commercial application of OSGi. Open to all, the submitted commercial applications of OSGi will be reviewed by the Expert Groups and Board of OSGi. The winner will be the application which best exploits the capabilities of OSGi and its unique platform specifications. Selection criteria include the innovativeness of the application, its comprehensiveness, the development stage and the innovative use for end-users, manufacturers and service providers.

For more information, rules and submission requirements, please go to www.osgi.org/competition/application

Pre-Congress Introductory Workshop: What is OSGi?

Radisson SAS Royal Viking Hotel, 8.30am to 11.00am 24th September 2002

Led by members of the OSGi Board and Expert Groups

8.30 Registration & coffee

8.50 Welcome Address And Opening Remarks From The Chair

- Why will this initiative be pivotal to these industries' development?
- Assessing the global reach of the initiative
- How are other standardisation initiatives working with the OSGi to enable the interoperability of networking devices and services, while maintaining differentiation?

Dr Dave Marples

Vice President, **Global Inventures**
Executive Director, **OSGi**
Professor, Department of Computing Science & Mathematics,
University of Stirling

9.00 Examining The Progress Towards The Development Of A Single Standard For The Delivery Of Managed Broadband Services To Networks In Homes, Cars And Other Consumer Environments

- What are the challenges of achieving interoperability between the following?
 - service providers
 - service gateway manufacturers
 - network operators
 - home appliance manufacturers
- Developing a service delivery standard that enables remote configuration of applications
- Promoting co-operation in a fiercely competitive market to drive mass market take-up of networking services
- Ensuring that the standard promotes fair and equal competition for the different access and home networking technologies
- What are the objectives of the OSGi and what capabilities does the current OSGi 2.0 Release have?

9.30 Forecasting The Take-Up Of Home Networking Worldwide

- Comparing the current US, Asian and European markets for home networking and forecasting their development over the next 5 years
- Outlining the take-up rates of each of the commercially available networking solutions
- What level of home networking are gateways currently capable of supporting?
- In what ways will OSGi-based service frameworks for residential gateways increase home networking capabilities?
- Identifying the most popular services currently available and predicting the home networking services that will be demanded by the mass market in the future

10.00 Demonstrating How Open Standards For In-Vehicle Telematics Will Drive Customer Take-Up

- What are the advantages to the car manufacturer, service provider and application developer of a service platform based on established open standards?
- Assessing the telematics applications that will benefit from running on a OSGi framework
 - can currently available telematics applications be easily adapted to be OSGi-compliant or is a complete re-write of coding necessary?
- Examining the OSGi platform with programming interfaces designed specifically for the in vehicle environment
- Ensuring that standardisation does not slow down innovation in the automation industry

10.30 Growing The Market: Developing Specifications To Allow Application Development To Be Independent Of The Hardware And Services Framework On Which They Will Be Run

- Addressing the requirements for large-scale deployments of OSGi functionality where local management is not feasible

- Identifying user-based requirements and assessing their implications for the developer
- Creating a language-independent model for the remote management of gateways and the services they contain
- Ensuring that input from the vertical industry sectors is fed back into the OSGi specification

11.00 End of Introductory Workshop

Members' Meeting (Closed to non-members) World Trade Centre, 8.50am to 11.00am 24th September 2002

8.30 Registration & coffee

8.50 Welcome address from the Chair

Dr John R. Barr, President, **OSGi**
Director, Standards Realisation, **Motorola**

During the OSGi Members' Meeting plenary session issues relating to the functioning of the OSGi initiative will be discussed. In this session there will be an examination of the progress OSGi has made in its various target markets, introductory presentations from new members and, most importantly, the inauguration of the new OSGi board for the 2002-2003 sitting.

Congress Day 1: An introduction to the Open Services Gateway Initiative

World Trade Centre, 11.00am to 6.00pm 24th September 2002

11.00 Morning coffee

11.30 Welcome address

Dr John R. Barr, President, **OSGi**
Director, Standards Realisation, **Motorola**

11.40 Justifying The Need For A Single Service Delivery Standard

- Outlining the objectives of the OSGi specifications and how the following are being achieved:
 - identifying requirements for interoperability and general usability of networking systems
 - ratifying the specifications as international standards
 - supporting the creation and implementation of uniform test procedures and processes which promote interoperability
 - maximising the client and supplier base for the industry while maintaining product differentiation
- How does OSGi better enable the services such as:
 - vehicle diagnostics
 - emergency assistance
 - mobile commerce
 - navigation
 - location-based services
 - information/entertainment
 - communication
 - energy management and metering
 - diagnostics and servicing
 - safety and security monitoring
 - telemedicine and healthcare monitoring
 - security
 - device management
 - service collaboration
 - interconnectivity
- Outlining the advantages of the OSGi service framework and standardised APIs and how they address the issues of:
 - service cradle-to-grave lifecycle management
 - client access
 - inter-service dependency management
 - resource management
 - data management

Dr John R. Barr, President, **OSGi**
Director, Standards Realisation, **Motorola**

12.10 Determining How The OSGi Benefits All Parties In The Value Chain

- Creating a viable vendor-neutral platform for multiple service providers
- Examining the impact of the OSGi on the following industry sectors:
 - service providers and telecom operators
 - utilities
 - gateway and set top box suppliers
 - content providers
 - software/applications developers
 - consumer electronics/device suppliers
- To what extent do OSGi platforms meet the requirements of small market segments?
- How does the OSGi protect the OEMs from obsolescence?

Dan Bandera, Program Director & BLM for Client & OEM Technology
IBM Pervasive Computing

12.40 Examining What The OSGi Is Doing To Expedite The Roll-Out Of Value Added Services And Applications

- Quantifying take-up rates of OSGi-compliant systems and the expansion of the home networking market in the various geo-sectors
- What strategies are in place to secure the dissemination of OSGi standards and increase the development of OSGi-based applications?
- How is the unit cost of OSGi compliant products expected to change?
- How does the price/performance curve for Java processors impact the take-up of the OSGi service delivery standard?

Jeff Lund, Board member, **OSGi**
Vice President, Business Development & Corporate Marketing, **Echelon**

1.10 Lunch

2.20 Why Was The OSGi Specification Based On Java Technology?

- What were the criteria that the underlying technology had to meet?
 - why was Java the technology of choice?
- How does the Open Services Gateway Initiative relate to JINI?
- How does the OSGi relate to MIDlets and Xlets (MIDP & Java TV)
- How does the OSGi bridge non-Java based standards (such as Universal Plug and Play)?
- How does the OSGi collaborate with .NET?
- Outlining the J2ME and J2EE variants available to the developer
 - understanding the advantages offered by J2ME CDC and CLDC configurations

Peter Kriens, Technical Officer, **OSGi**
Chief Executive Officer, **aQuote**

2.50 Showcasing The Benefits Of The OSGi Standards To Vertical Sectors By Demonstrating The Applications And Services They Are Enabling

- How has the service framework been adapted for the different vertical markets?
 - how is the service registry tailored for different applications?
- What are the benefits of using an OSGi framework as your service delivery platform?

- Identifying applications that have been layered on the framework to date
- How is the integrity of the OSGi-compliant application protected in this open environment?
- Will the OSGi reach critical mass in the business sector as well as in the consumer market sector?
- Case Studies: Reviewing real OSGi vertical market implementations supported by four of the service framework developers

Frans Vandemeulebroucke, Director Marketing, **Acunia**
Raj Mata, VP, Strategic Marketing, **Gatespace**
Senior Representative, **IBM**
Dr Susan Schwarze, Marketing Director, **ProSyst**

3.50 Afternoon tea & refreshments

4.20 Examining The Progress Of The DVB-MHP Project: Does The DVB-MHP Project Compete With Or Complement The OSGi?

- Outlining the DVB-MHP project and how it is fulfilling its objective of defining the following for interconnection of multimedia equipment in the home digital network:
 - protocols
 - interfaces
 - common API languages
- Which industry sectors is the DVB-MHP project targeting and are there any plans for expansion?
- Examining the critical components of the MHP reference model:
 - application lifecycle
 - platform/system software and middleware
 - API and native navigation/selection functions
 - media components
 - pipes and streams
- Examining how the DVB specifications protect the integrity of compliant applications
- How is differentiation achieved for compliant products?

Dan Stevens, Product Manager - Java TV™
Sun Microsystems

4.50 Examining The Progress Of The UPnP Forum Gateway Initiative

- Outlining the objectives of the UPnP Forum initiative
- Identifying the proximity networks for which the UPnP architecture can be used
- Understanding the relationship between the UPnP and the OSGi
 - how are they working together and what do they wish to achieve?
- Evaluating how the UPnP data transmission protocol enables the following:
 - device addressing
 - device description
 - event messaging
 - device discovery
 - action invocation
 - human interface
- Defining and explaining the UPnP device architecture layer and what contributes to the structure:
 - UPnP device architecture
 - DCPs
 - UPnP Forum templates
 - data format

- Identifying the industry sectors that the UPnP are currently targeting and will be targeting in the future
- What adaptations will UPnP need to make to their standards to enable UPnP networking of:
 - industrial machine tools
 - medical devices
 - automatic test equipment

- How can UPnP control points be developed by companies using a Java-compliant platform?
- Outlining the UPnP product landscape

Herman Elenbaas, Manager, Strategy & Technology
Philips Consumer Electronics

5.20 Examining The AMI-C APIs: OSGi In An Automotive Platform

Eight major automotive manufacturers are collaborating to define a common set of specifications for in-vehicle information and multimedia systems. In addition to component hardware and networking specifications for such systems, AMI-C is specifying a set of software interfaces that will enable the development of application software operating across a wide range of vehicles from many manufacturers. The initial software specifications are being released at the end of this year and are based, in large part, on the OSGi platform.

- Identifying AMI-C's goals and deliverables
- Outlining timescales for the release of AMI-C's specifications
- Determining who will benefit from using AMI-C specifications
 - what applications will AMI-C's specifications be used for?
- Exploring the role of external standards in AMI-C specifications
- How do OSGi and AMI-C specifications complement each other?

Dr Edward C. Nelson, Chief Software Architect, **AMI-C**
Senior Technical Specialist, **Ford Research**

5.50 Chair's closing remarks

6.00 End of Congress Day One



8.30 Morning coffee

8.50 **Opening remarks from the Chair**
Deepak Kamrani, Founder & CEO
Global Inventures

9.00 **Comparing The Commercially Available OSGi Software Platforms And Understanding The Implications Of The Choice For The Applications And Gateway Developers**

Multi Speaker Session

- To what extent must the framework provide a full solution?
- Which hardware and software platforms must be supported?
- How are the framework developers tackling the limitations of embedded devices?
- What technical issues are not yet included in the OSGi specifications and how does the lack

of standards in these areas differentiate the framework implementations?

- Determining what needs to be done to adapt an OSGi framework for a specific vertical market

Johan Vos Director, New Technology, **Acunia**
Dr Staffan Truvé, Chairman, **Gatespace**
Dr Dimitar Valtchev, CTO, **ProSyst**
BJ Hargrave, Senior Software Engineer, **IBM Pervasive Computing**

10.40 **What Are The Advantages Of Microsoft's .NET Development Platform? In What Circumstances Are These Advantages Best Exploited?**

- Comparing Microsoft's development platform with that advocated by the OSGi
 - what are the technical and commercial advantages for the developer of using any

language on a single platform rather than one language on multiple platforms?

- Outlining the capabilities of the .NET compact framework and detailing what the add-on smart device extensions (SDE) will add to the platform
- What development advances will the beta version of the .NET SDE enable?
- Charting Microsoft's progress in synchronising information between the home office and car environment

Dr Eric Meijer, Technical Lead, SQL Programming Model, **Microsoft**
 Adjunct Professor, Computer Science & Engineering, **Oregon Graduate Institute**

11.10 **Morning coffee** – Delegates are now welcome to move between tracks to hear a selection of presentations from both

Stream A: Automotive Track

11.40 **Introduction from the Chair**

11.50 **Outlining AMI-Cs Progress In Creating An Industry-Wide, In-Vehicle Software Platform And How Their Specifications Will Enable Access To The Vehicle For Multimedia And Telematics Applications**

Car OEM

- What is the role of the in-vehicle software platform in the AMI-C architectural model?
- How is the OSGi framework integrated into the AMI-C software architecture?
- Validating AMI-C's APIs through software Embedded Proofs of Concept
- Explaining the role of the vehicle services interface in the AMI-C architectural model
- Examining the vehicle services interface at the network level and outlining the Java APIs
- Describing the vehicle services covered by the current AMI-C specifications
- How can bundles use these services to provide automotive-specific applications?

Dr Edward C. Nelson, Chief Software Architect, **AMI-C**
 Senior Technical Specialist, **Ford Research**

12.20 **Examining BMW's Open Architecture For Telematics Applications – Examining The Challenges And Opportunities Presented To The Telematics Industry By OSGi**

Car OEM

- Assessing the market drivers for developing telematics systems
- What are the main architectural considerations for telematics systems?
 - outlining the automotive requirements and how they are provided for in the OSGi framework
- Outlining BMW's telematics architecture: examining the blueprint for an open service architecture based on OSGi
- Identifying new value-added services in the car industry and how basing them on OSGi specifications will further help the success of the product
- Understanding BMW's view of the future for the telematics industry

Hans Ulrich Michel
 Project Manager Information, Communication & Telematics
BMW

12.50 **Examining Ericsson's OSGi Telematics Solution**

- Understanding the requirements for and benefits of telematics solutions based on OSGi
- Assessing opportunities arising from new cellular technologies: 2.5G, 3G and mobile positioning
- Identifying the particular challenges for the automotive industry of creating a carrier grade service solution
 - outlining the requirements of the human-machine-interface for a car driver
 - understanding automotive development cycles and branding concerns
- Assessing Ericsson's proof-of-concept projects for OSGi-based telematics solutions undertaken by leading European car manufacturers
- Identifying the value chain members included in the projects and the role they play in end-to-end service delivery
- How are the back end system, cellular network and vehicle equipment integrated as an end-to-end telematics system?

Pär Mattisson, Director, Automotive Telematics, **Ericsson**
 Board Member, **OSGi**

1.20 Lunch

2.30 **Using OSGi To Successfully Deliver Consumer Services From Several Different Networking Environments: Reviewing The Car-Home Continuity Case Study**

Telecom Operator

- Outlining the objectives of Car-Home Continuity project
- Forecasting the growth for the market for delivery of services to and between the car and home
- Determining the optimum service delivery architecture for seamless integration of automotive and in-home services
 - implementing OSGi architecture for a car and home networking platform
- Which services can already be offered seamlessly to both car and home?
- Outlining the applications being developed to run on this framework
- Successfully developing partnerships with applications developers to maximise the opportunities afforded by the OSGi

Antoine De Ryckel
 Sales Manager Northern & Southern Europe
Acunia

Hugues Oudeville
 R&D Engineer, Home Networking Services
France Telecom

3.00 **Examining Volvo Cars' Perspective On The Telematics Market: How Can OSGi Benefit The Market?**

Car OEM

- Outlining Volvo Cars' market research into consumer demand levels for telematics services
 - what services generate most consumer interest?
 - how much are consumers prepared to pay?
- Understanding Volvo Car's business model for capitalising on the new revenue streams created by telematics services development
- Car OEM perspective: Identifying the pros and cons of basing telematics products on OSGi
 - what are the advantages of OSGi from a car manufacturer's perspective?
 - why are open, detailed and universal standards worth waiting for?

Niklas Wahlgren
 Telematics Director
Volvo Cars

3.30 Afternoon tea & refreshments

4.00 **Establishing OSGi-Based In-Vehicle Telematics Platforms For The European Mass Market**

- Outlining the objectives of the 3G Telematics (3GT) project and its relationship to the OSGi
- Identifying the key players in the 3GT project
- Developing OSGi-based specifications for the interface between vehicles and control centres and between control centres and service providers
- Ensuring interoperability between products from different suppliers
- Clarifying the specification test and validation procedures being carried out at the 5 European test sites
- Examining lessons learned from the project to date and determining the next step for the 3GT project

Dr Peter Van der Perre
 Project & Development Manager
Erico

4.30 **Examining Audi's MMI (Man Machine Interface) System; Assessing The Open Telematics And Multimedia Solutions Based On OSGi And MOST (Media Oriented System Transport)**

Car OEM

- Providing an end-to-end system overview of Audi's A8 telematics solution, with regards to backend and security
- Assessing components of the new telematics and multimedia architecture
- Examining the architecture overview of the new OSGi-based telematics unit
- Overcoming the challenge of service integration into the Audi MMI via the Audi online portal

Jak Konrad Senior representative
 Vehicle Application Framework Software Manager
Infotainment Systems Audi
Motorola

5.00 **Understanding OSGi From A Telematics Infrastructure Provider's Perspective**

- Examining how OSGi will impact future infrastructure for telematics and how leverage can be achieved from current telematics infrastructure
- Evaluating the commercial challenges, risks and opportunities in using open standards such as OSGi
- Exploring the changing role of the Telematics Service Provider (TSP) in a market moving from proprietary standards to open standards
- Developing partnerships to successfully establish a network for the delivery of OSGi-based services
- Securing quality assurance from your third party content and service providers
- Optimising provisioning and billing in an OSGi environment
- Outlining WirelessCar's roadmap to support OSGi

Johan Carlsson
 Product Marketing Manager
WirelessCar

5.30 **End of Stream A: Closing remarks from the Chair**

5.40 **End of Congress Day Two**

OSGi awards ceremony and drinks party

IIIR and the OSGi board would like to welcome you to the OSGi Inaugural Awards 2002

Stream B: Smart Home & Energy Management

11.40 Introduction

11.50 Optimising Service Aggregation For The Networked Home



- How will individual local infrastructures in homes develop?
- Examining the new "paradigm" for line operation, service provision and network management
- What could inhibit interoperability?
- Optimising service offerings to cater for individual consumer needs and home networking capabilities
- What additional revenue streams have been created through systems integration in the home?

Hans Werner Bitzer

Board member, **OSGi**

Head of Section Smart Home Solutions, **Deutsche Telekom**

12.20 Telefonica De España Case Study: Service Provisioning For The Residential Environment



The Hogar.es project, led by Telefonica de España, aims to improve service provisioning for the residential environment. The initiative, partially funded by the Spanish Ministry of Science & Technology, will enable the "connected home" of the future.

An OSGi-based architecture has been chosen to develop the services to run on the residential gateways. A pilot will take place in around 30 Spanish homes in November.

- Outlining the services that can be integrated on the Hogar.es system:
 - surveillance
 - health care
 - e-learning
- Using Internet services to access and control networking services
- Applying SOAP protocol for peer-to-peer communication between third party service providers, service aggregators and the residential gateways
- Achieving successful remote management of customers, residential gateways and services
- Assessing new device architecture not yet standardised by OSGi
- Outlining the results of field trials with end-users

Enrique Mendiña

Residential System Manager

Telefonica de España

12.50 Delivering Services Via Telia Research's OSGi Compliant Gateway Developed With Skanova



- What are the most important capabilities of the service gateway from the telecom operator's point of view?
- Understanding the gateway architecture
- Assessing the security and scaling advantages which this solution ensures
- What new e-commerce solutions will be enabled by the gateways' connection-oriented services?
- What applications have been developed to add value to Telia's offering?
- Who are the initial customers for the services?

Claes Nycander

President

Telia Research

1.20 Lunch

2.30 Examining The Business Case For Delivering Energy Management And Home Automation Services To The Home

Energy management has become both a commercial and political issue; the delivery of home automation services combined with energy management has been shown to have a sound business case which Echelon are exploiting

- Exploring the business case for the phased introduction of home networking services via a residential gateway
- Understanding how a residential gateway fits into the business model of a utility
- Identifying which value-added home networking services customers will demand and outlining the marketing benefits of a phased introduction of services
- How can modular home networking be successfully achieved using:
 - powerline communication technology
 - LonWorks architecture to provide intelligent nodes
 - services based home-automation concept
- Identifying which service providers are likely to take advantage of this developing market first
 - utilities
 - telecom operators
 - cable providers
- Announcing the LonWorks OSGi bundle deployment kit

Mark B.M. Ossel

Vice-President & General Manager EMEA

Echelon

3.00 Delivering An Easy to Use, Profitable And Future-Proof Service Platform

- Identifying the types of gateway that are commercially available today
- Understanding how the gateway market will evolve
 - what services have been shown to be in demand by consumers and how will their requirements change?

- Outlining the benefits of the OSGi to:
 - service and content providers
 - manufacturers
 - network operators
 - end users
- Examining the different business models for service providers
- Developing successful partnerships with application providers to offer operators and service providers a full portfolio of revenue generating services for end users
 - why have MetaVector Technologies decided to develop some applications in-house?
- Outlining the scope of the services that can be delivered via Metavector Technologies' PyliX integrated services gateway
 - VoIP
 - energy management
 - office services: file/printer server; email server; Internet/intranet server
 - home/office automation and control
 - security
 - home/office alerting

Bart Mariman

Business Development Director

Siemens – MetaVector Technologies

3.30 Afternoon tea & refreshments

4.00 Examining The Business Case For Developing Home Networking Products And Services And Understanding The Implications Of Using OSGi On Whirlpool's Business Model



- Examining the various business models that were assessed for the development of Whirlpool's home networking products and services
- Understanding Whirlpool's innovative business plan and the implications of developing OSGi compliant products
- Outlining how consumers will benefit from Whirlpool's home networking products and services
- Assessing the need for partnership agreements to grow the home networking industry
 - how have Whirlpool optimally managed their commercial relationships?
- Detailing Whirlpool's various product roll-out strategies

Arturo Colantuoni Sanvenero

Director, Integrated Home Solutions, Europe

Whirlpool

4.30 Examining The Market Potential For Kitchen Centric Applications With Internet Connectivity



- Outlining the capabilities of BSH's range of OSGi compliant appliances
 - how has OSGi architecture enabled the easy, secure management and use of household appliances and services via mobile phone, PDA or computer?
 - what are the challenges of controlling household appliances via the Internet, RF and WAP?
- Seamlessly interconnecting between all household systems and technical standards regardless of devices or standards
- What partnership structure did Bosch and ProSyst adopt to provide a workable and profitable end-to-end home network solution?
- What has been the consumer feedback to Bosch-Siemens's market research into remotely controlled kitchen appliances?
 - how much is the consumer prepared to pay for this service?
- Examining the impact of installing home networked white goods and service monitoring

Horst Werkmann

Head of Internet@appliances

B/S/H Bosch and Siemens Hausgeräte

5.00 Understanding How Utilities Can Leverage OSGi To Manage Services That Add Value For Their Customers



- Outlining the objectives of the M@jordom project
- Explaining the reasons for the decision to use OSGi in the M@jordom project
- Demonstrating how an existing standard power meter can be linked to an OSGi gateway to implement new ways to sell electricity
- Examining the prototype architecture from which M@jordom was developed
- Understanding how services can share local software and data as well as distant resources
- Developing service simulation websites to reduce the consumer fear factor of new services and encourage subscription

Paul Kopff, Research Engineer & **Christine Odinot**, Research Engineer
Electricité de France

5.30 End of Stream 2: Closing remarks from the Chair

5.40 End of Congress Day Two

OSGi awards ceremony and drinks party

IIR and the OSGi board would like to welcome you to the OSGi Inaugural Awards 2002

8.30 Morning coffee

8.50 Opening remarks from the Chair

9.00 **Examining The World's First Commercial Deployment Of OSGi-Based Consumer Services, Including Energy Management, Home Automation And Community-Oriented Services**

Commercial Service Deployment

Per Ljunggren
 Chief Executive Officer
E2Home

9.30 Award winner presentation – Best OSGi Bundle

10.00 Award winner presentation – Best OSGi Application

10.30 Morning coffee

11.00 **Identifying The Advantages Of Utilising OSGi In The Consumer Entertainment Environment**

- Assessing ways in which OSGi can benefit the consumer entertainment sector
- Seamlessly integrating consumer entertainment equipment throughout the home
 - achieving interoperability between consumer devices
 - overcoming user interface challenges
- Easing Internet connectivity for multiple consumer devices
- Achieving easy linking to manufacturers' and service providers' portals
- Introducing additional functionality: how has the OSGi enabled ease of upgradeability?
- Understanding the relationship between OSGi and DVB-MHP

Paul Bristow
 Strategic Technologist
Philips Softworks

Leo Rozendaal
 Senior Scientist
Philips Research

Case study: iPronto simplifies controlling an increasingly complex set of devices - CD, TV, VCR, DVD, A/V systems, Internet Audio, etc – allowing increased convenience and simplicity in performing remote control activities. iPronto's software architecture is based on OSGi 2.0 and UPnP, and based on Linux and Java. The OSGi stack is the core of the application management framework, providing the necessary services for installing, configuring, running, maintaining and removing applications.

Fredrik Leemans
 Innovation Manager
Philips Components

11.45 **OSGi Demonstration: Bridging Bluetooth and Wireless LAN and Allowing Interoperability In The Same Network**

- How do the OSGi standards allow the different operating systems and processors to communicate in the same network?
- Explaining Triple-A management in commercial networks with OSGi
- Implementing OSGi in wireless networks
- Adding a Bluetooth profile to the box as a bundle
- Connecting a Bluetooth PDA to the wireless LAN
- Outlining case studies of OSGi-based industrial applications in intelligent local wireless networks

Erik Lagersten
 Communications Director
Possio

12.15 **Charting The Evolution Of The OSGi Release 2.0 To Release 3.0 And Outlining The New Capabilities Of Release 3.0**

- Outlining the limitations of the Release 2.0 specifications and how Release 3.0 improves the specifications for the application developer
- Outlining the most important aspects of the following specifications:
 - framework package
 - permission admin service
 - package admin service
 - service tracker
 - log service
 - http service

- device access configuration
- configuration admin service
- metatype
- preferences service
- user admin service

- What new features will the 3.0 Specifications release include? Predicting timescales for their finalisation
 - wire administration
 - state management
 - communications
 - run levels
 - URL content/stream handling
 - XML parser factory
 - JINI
 - UPnP
 - measurement
 - execution environments
- When are Release 3.0 products expected to reach the consumer market?

BJ Hargrave
 Senior Software Engineer, **IBM Pervasive Computing**
 CPEG Chair, **OSGi**

12.45 Lunch

2.00 **Examining The e-PASTA Home Networking Security Project Incorporating OSGi Service Gateways**

- Identifying the potential security gaps between physical architectures and home applications
- Carrying out security analysis using ISO15408 as a methodology
- How has OSGi architecture been incorporated into the e-Pasta project?
 - what security breaches is OSGi particularly suited to preventing?
- Explaining the work that e-PASTA is doing to maximise security and minimise cost in the following environments:
 - local home access
 - remote home control access
 - service on demand applications
- Implementing security mechanisms for applications based on EHS/KNX protocol

Antonio Kung
 co-Founder, **Trialog**
 Project Manager, **e-PASTA**

2.30 **Examining Component-Based Architectures For Vehicle Telematics Systems**

Car OEM

- Understanding the requirements for component-based architectures
- Outlining the solutions that are currently available and assessing their limitations
- Outlining DaimlerChrysler's modelling component architecture approach
 - how does this approach incorporate OSGi specifications?
- Evaluating the initial customer feedback on DaimlerChrysler's telematics products

Dr. Matthias Stümpfle
 Head of Telematics Architectures & Vehicle Services
DaimlerChrysler - Telematics Research

3.00 **Final Remarks: Outlining Plans For OSGi In The Next Year And Beyond**

John Barr
 President, **OSGi**
 Director, Standards Realisation, **Motorola**

3.30 End of Congress

3.45 **Closing Plenary – OSGi members only**

During the closing plenary we will review the work completed during the week, summarize issues that have arisen during both the Members' Meeting and the Congress and determine the next steps for the development of the OSGi. At the end of this session members will have a clear understanding of the state of the OSGi and be able to take this valuable information back to their companies to benefit their own product/service development.

Learning To Leverage OSGi To Create Saleable And Profitable Bundles

Friday 27th September 2002 - Radisson SAS Royal Viking Hotel, Stockholm



Peter Kriens, Technical Officer, OSGi
Chief Executive Officer, aQute

The workshop will run from 9am to 4pm with lunch, tea and refreshments served during the day

The workshop is designed to ensure that by the end each delegate should have:

- received an in-depth overview of the OSGi architecture
- understood how each aspect of the architecture interacts with the others
- appreciated how the OSGi architecture will make applications ubiquitous and protocol independent
- developed an OSGi bundle

The workshop has been structured to allow you significant interaction with the leader and other delegates. Discussion sessions will follow each session to allow you to question the workshop leader and other delegates to optimise your workshop experience.

"At the OSGi Workshop we'll show you how to put OSGi theory into practice. You really do only need one day to start using the OSGi principles in real commercial development."

John Barr, President, OSGi

9.00 Introduction

Session 1: Reviewing The Technical Features Of Standardised Services

- What are the advantages of using the OSGi http service?
- Handling errors consistently for large and small scale deployments with the OSGi log service
- Understanding the OSGi device management and driver loading
- Using the OSGi configuration management to dynamically configure the OSGi environment
- Clarifying the implications of preferences for OSGi
- How are authentication and authorisation achieved in the OSGi environment?
- Previewing future services: wiring UPnP JINI communications

- Understanding the event model and callbacks
- Using existing code, third party libraries and native code
- Understanding concurrency in bundles
- Avoiding pitfalls

12.30 Lunch

1.30 Practical Session: Design Your Own OSGi Bundle

During the workshop, you will be given a step-by-step lesson to develop an OSGi bundle. You will need to bring with you your Java-enabled laptop. Details of development tools you will need are given at www.osgiworldcongress.com/bundle

Session 2: Examining A Music Subscription Service Provider Case Study

- Identifying the capabilities of the service provided to customers
- How does the OSGi framework benefit the service provider?
- Outlining the architecture used by the service provider and operator – what applications are being used?

4.00 End of workshop day

11.00 Morning coffee

Session 3: Understanding The OSGi Programming Model

- What do you need to know to design a bundle?
- Assessing the requirements for bundles and services

Peter Kriens has been involved with the OSGi specification process for several years. Initially he was a member of the Java Expert Group, then co-chair of the Core Platform Expert Group and since last year he has been Technical Officer of the OSGi. He has developed architecture and built large distributed systems since the early 80s. While working for 3 years at Ericsson Research he was involved in the e-box project: one of the first OSGi gateways.

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