Paris, France

OSGi Alliance
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OSGi Release 4 from a Business Perspective

Paris, France

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Home Automation
Home Automation: Networked
Eclipse, Mobiles, Application services

- Operator
- Network
- Appliances
- Adapters
- Applications
- Accessories
Lets Change Perspective
These Very Different Markets Look Similar
Archetypical Model

Management Center

Network

Gateway

- Appliances
- Applications
- Accessories
- Adapters

OSGi Service Platform

Operator
Networked Devices

- Devices are more and more networked
- How to ensure devices can actually communicate?
  - Standardize protocol!
The nice thing about standards is that there are so many to choose from!
The Key Opportunities

• The Key opportunity the OSGi addresses are the 4 A’s
  – Accessories
  – Appliances
  – Applications
  – Adapters

• With OSGi
  – New features can be sold after the sale
  – New protocols can be supported after sale
  – Inevitable bugs can easily be resolved
  – Option of third party software instead of in-house development
The OSGi Solution

• The OSGi Service Platform provides an execution environment for networked devices

• The Service Platform is well defined so that
  – Applications can run on a variety of devices
  – Devices are not constrained
  – Adoption costs are relatively low

• Benefits
  – Reduced development cost
  – Third party application market: more choice
  – Higher quality due to competition
The OSGi Solution: Security

- The Service Platform provides a secure execution environment
  - Each Application runs in a unique sandbox
  - Sandbox defined by the location, signer or custom defined condition
  - Sandbox under control of operator

- Benefits
  - Lower cost of application development because not all applications have to be trusted
  - Higher reliability of the system
  - Enables trusted applications like Digital Rights Management
  - Enables walled gardens but also allows open systems like Eclipse
The OSGi Solution: Collaboration

- The Service Platform supports a collaborative environment
  - Service/Component oriented architecture
  - Dynamic discovery of available services
  - Integrated with life cycle management: dynamic
  - Runtime composition of behavior from services
  - Components can be extended by third parties

- Benefits:
  - Applications can be smaller and are therefore of lower cost and requires less device footprint
  - Different manufacturers can supply different components of the puzzle: more choice
  - Dynamic nature supports customer need for immediate satisfaction
The OSGi Solution: Remote Management

- The Service Platform can be managed remotely
  - Update The Platform with new software
  - Monitor the device’s state
  - Take corrective actions
  - Protocol Agnostic

- Benefits:
  - Happier customers: The quality of services can be maintained
  - Market for new features to existing customers
  - Reduced help desk and technical support cost
  - Use existing management infrastructure
The OSGi Alliance vision is a world where most networked devices support a networked-application standard

- For mobile and fixed devices
- For applications and system software

It must support the diversity and special needs of real world devices to be viable.

The additional cost of adoption must be low to be viable.

It must be an open standard because monopolies cause high prices and decrease quality.

It must support a variety of business models to make it profitable to deploy.

The OSGi Service Platform Release 4 defines such an open platform. Help us spread the adoption.