



OSGi Alliance Internet of Things Value Proposition

March 2016



Founded in 1999

**Proven, Mature
Software
Architecture**

**Transparent
Development
Process**

**Strategic
Partnerships/
Collaboration**



**Global
Ecosystem**

Best Practices

**Industry & End
User Adoption**



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Alliance Members Include.....





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What is OSGi?

Modularity and Services

Modular Software architecture

- Execution environment, APIs, device abstraction
- Application development framework
- Common architecture is applicable to Cloud, Enterprise, M2M & IoT architecture
- Can run locally on one device, all the way through to distributed across 1,000's of servers

Dynamic Service lifecycle enables:

- True 24/7 remote maintenance
- Remote software updates
- Aftermarket sales of upgrades and extensions

Portable and re-usable software modules enable

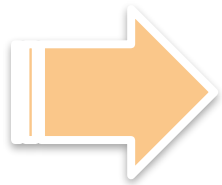
- Faster time-to-market
- Increased agility and reduced development effort and project risk
- Reduction in maintenance costs
- Ecosystem-based solutions



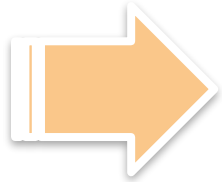


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The Only Open Industry Standard for Modularity



**Decreases development and
maintenance costs**



Reduces Time to Market

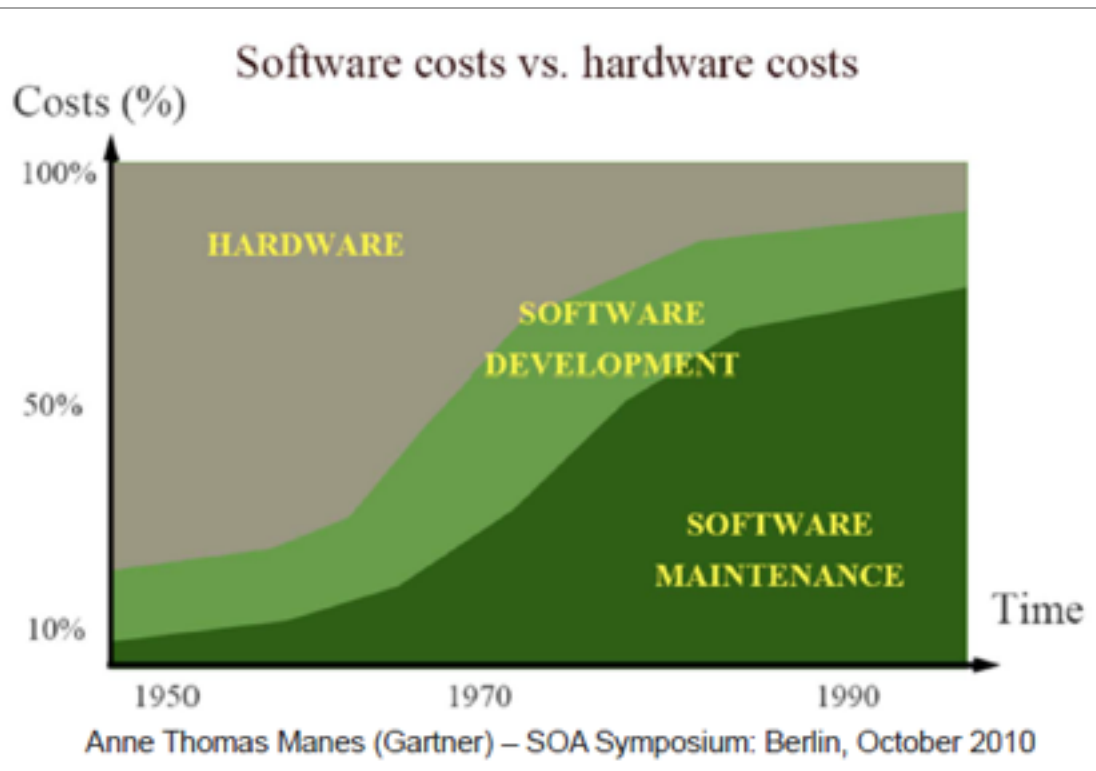


**Enables Agility and
Continuous Release**



Why Adopt OSGi ?

Modular Systems are Maintainable Systems



**Maintainable
Systems**



**Reduced Costs
and
Happy Customers**



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Made for IoT

Cloud PaaS & SaaS

<https://github.com/osgi/design/tree/master/rfcs/rfc0183>

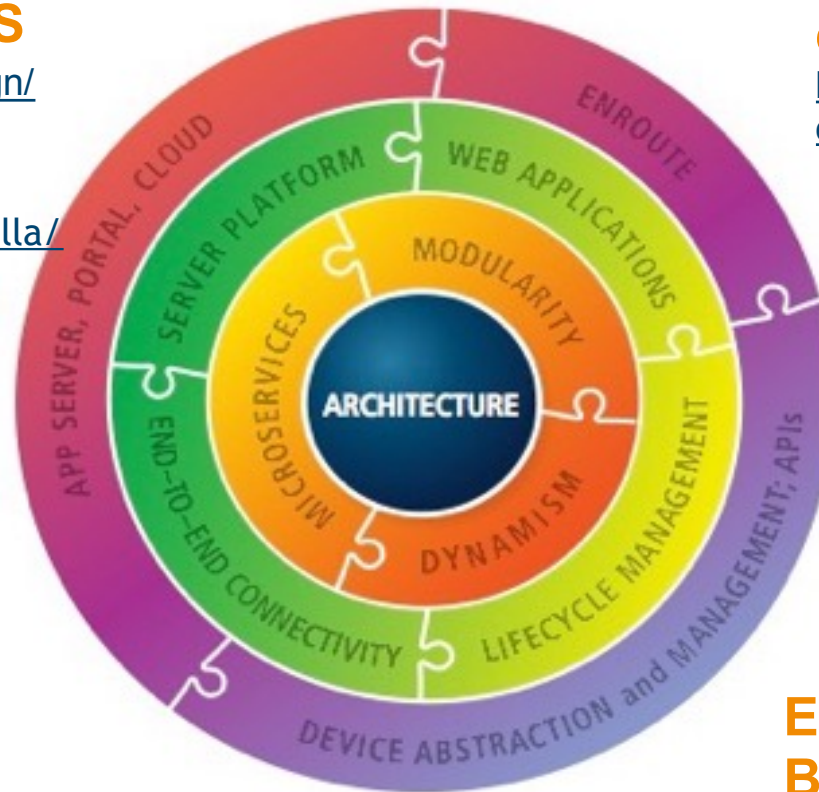
<https://www.osgi.org/bugzilla/attachment.cgi?id=46>

OSGi IoT EG

<https://github.com/osgi/design/blob/master/rfps/rfp-0174-IoT-Requirements.pdf>

Device abstraction

<https://github.com/osgi/design/tree/master/rfcs/rfc0196>



enRoute

<https://github.com/osgi/osgi.enroute.blog>

Annual OSGi Community Event

<https://www.osgi.org/2015-osgi-community-event/>

OSGi IoT Demo

<https://www.osgi.org/community/osgi-iot-demo/>

Embedded & Set Top Box Roots



OSGi Alliance IoT Expert Group

The OSGi Internet of Things Expert Group (IOTEG) is chartered to define the technical requirements and specifications to tailor and extend the set of OSGi Specifications to address information technology software infrastructure in Internet of Things scenarios.

The IOTEG areas of concern include:

- To support application developers in the creation of IoT services
- Where embedded and cloud environments intersect with endpoint devices
- Data processing and management in IoT gateways and the cloud
- Cross-industry and cross-protocol device connectivity on level of actors/sensors and IoT gateways
- Support the development and deployment of OSGi device abstraction layer and endpoint ontologies
- The virtualization of IoT services
- Connectivity to the cloud for endpoint devices and interoperation with existing management systems and protocols
- Enable and enforce end-to-end IoT security



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