Project Update EclipseCon Europe 2017

Kai Kreuzer — Eclipse SmartHome Project Lead
### Eclipse SmartHome Architecture

#### Eclipse SmartHome Core

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#### Eclipse SmartHome Sub-System Bindings

- Discovery Service
- Protocol Binding
- Product Binding
- Cloud Binding
- Sub-System Binding

#### Extension Points

![Extension Points Diagram](image)
NEW FEATURES IN 0.9.0

• Concierge Support
• Java 8
• Static Code Analysis
• Null Annotations
• IoT Marketplace Integration
• JSR223 Scripting (Python, Javascript...)
• Language Server Protocol support
• Units of Measurement support
CHALLENGES

• Bad committer vs. contributor ratio
• Complex technology stack (OSGi, EMF, Xtext)
• Java is not in focus for many IoT players and situation gets worse with Oracle abandoning Java Embedded
• Restrictive IP on protocol specs (Z-Wave, Zigbee,...)
COLLABORATION OPPORTUNITIES

• Sample lightweight distro using Eclipse Concierge
• OM2M integration for oneM2M compatibility
• Thingweb & Vorto for semantic service descriptions
• Ditto for a cloud-based representation
• Kura & Agail for BLE
• Kura & Agail for ZigBee
THANK YOU!

eclipse smarthome

@smarthome