



Project Update EclipseCon Europe 2015

Kai Kreuzer — Eclipse SmartHome Project Lead

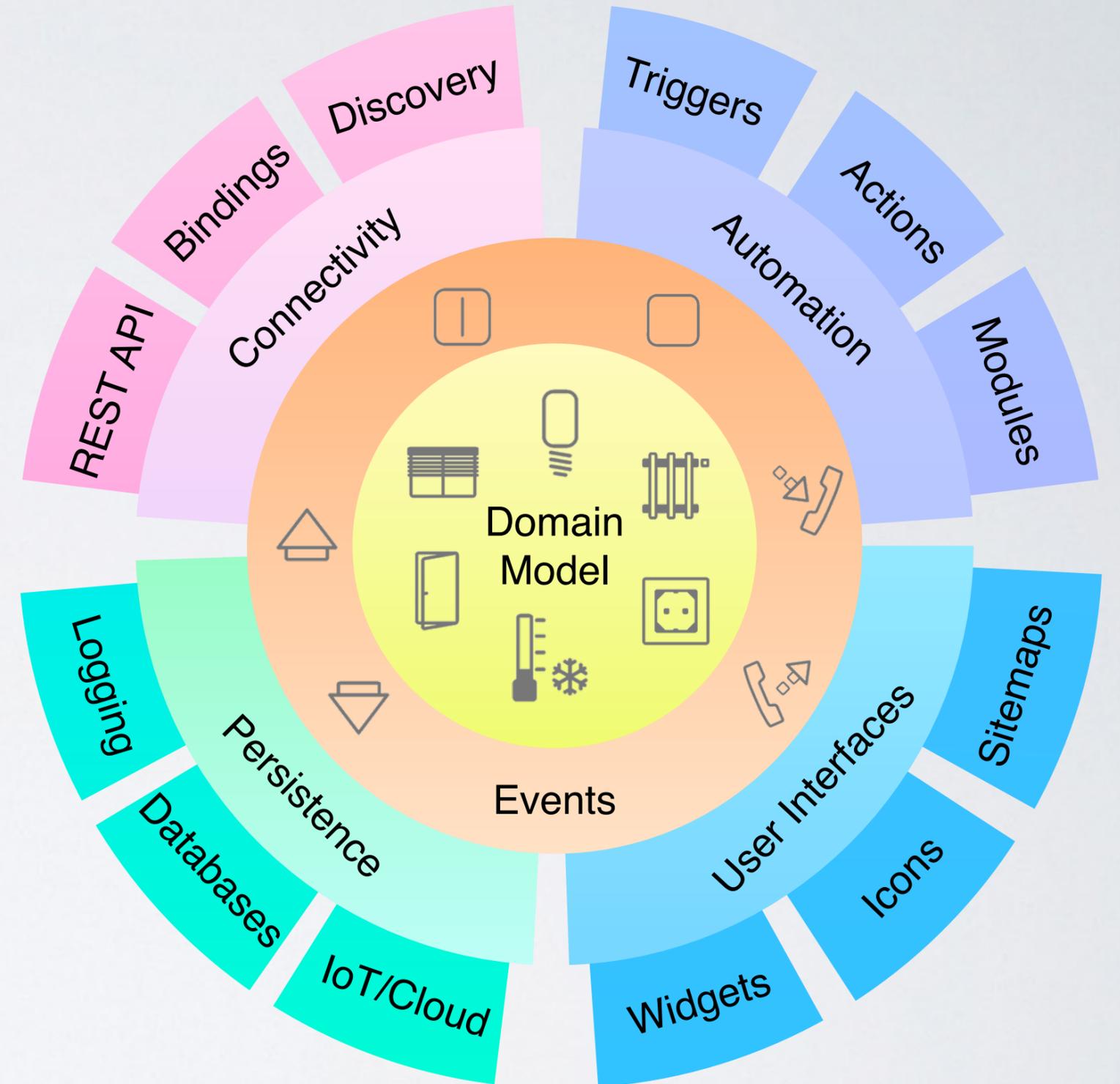
Solutions based on ESH

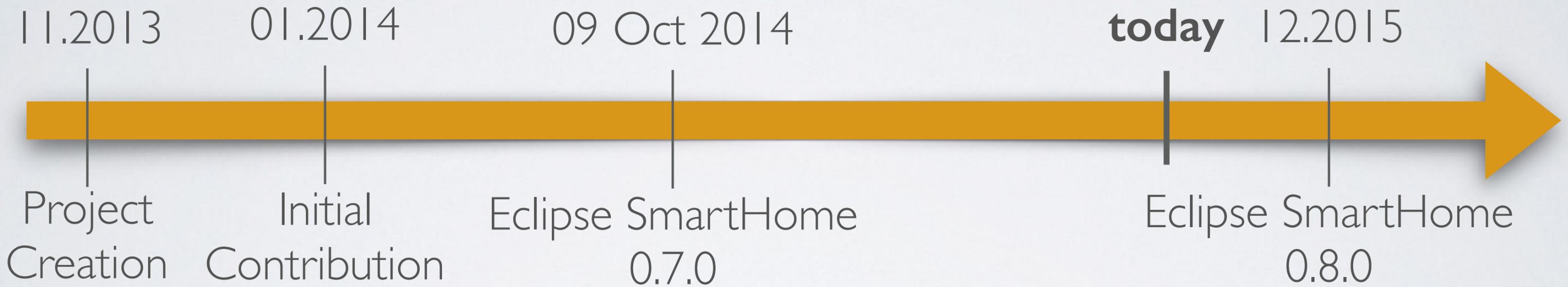
Eclipse SmartHome

OSGi Container

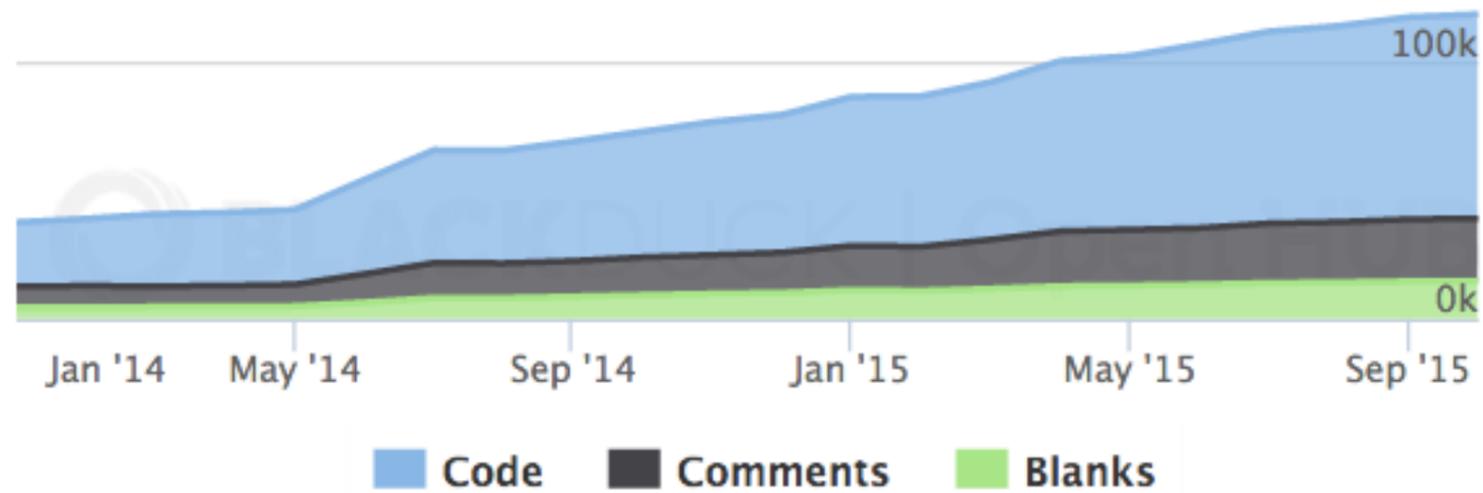
JVM

OS





Lines of Code



Statistics

80k LOC

191 Forks

39 Contributors

> 300.000 hits on Google

Oct 2014

50k

52

17

> 40.000

Jan 5, 2014 – Oct 31, 2015

Contributions to master, excluding merge commits

Contributions: **Commits** ▾



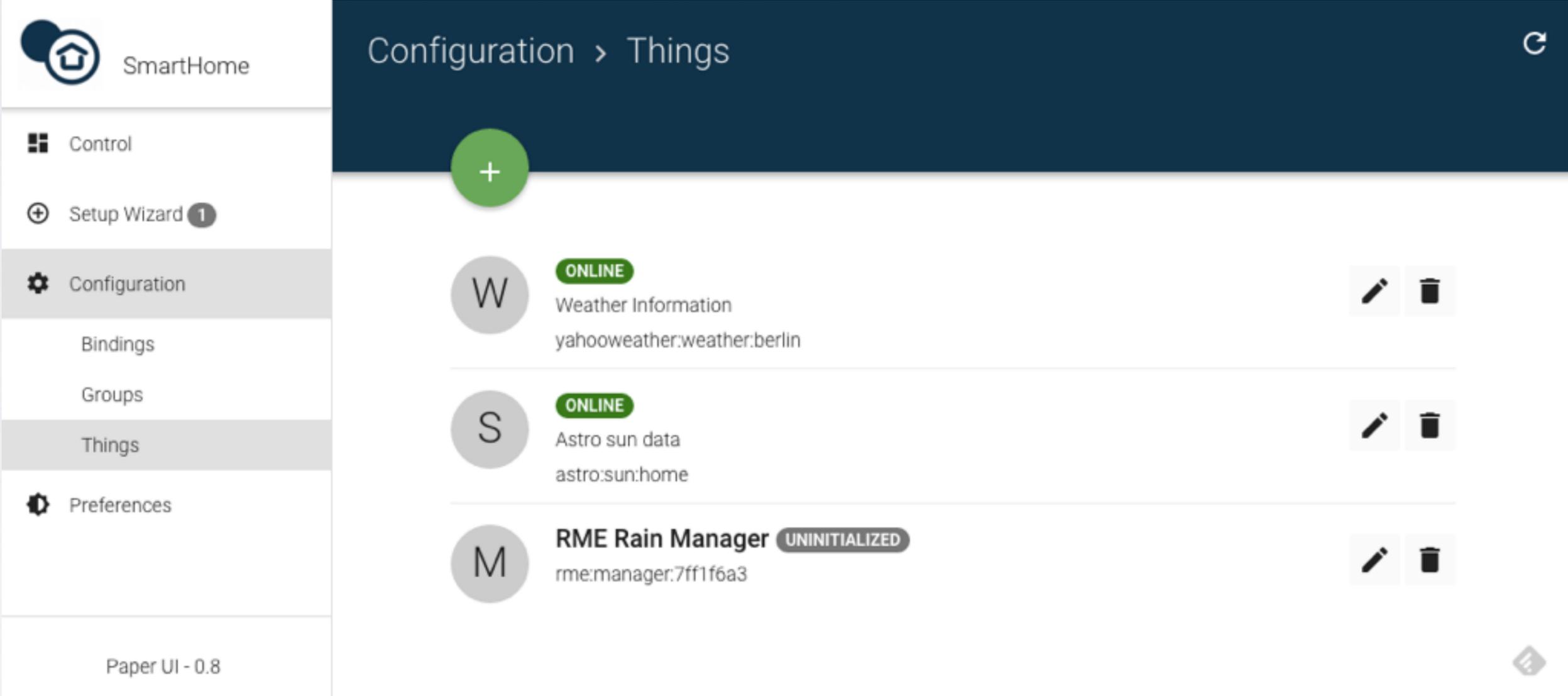
Eclipse SmartHome 0.8.0

Extended
REST API
+
SSE

discovery		Show/Hide	List Operations	Expand Operations	Raw
inbox		Show/Hide	List Operations	Expand Operations	Raw
items		Show/Hide	List Operations	Expand Operations	Raw
GET	/items				
PUT	/items/{itemName: [a-zA-Z_0-9]*}/members/{memberItemName: [a-zA-Z_0-9]*}				
DELETE	/items/{itemName: [a-zA-Z_0-9]*}/members/{memberItemName: [a-zA-Z_0-9]*}				
PUT	/items/{itemname: [a-zA-Z_0-9]*}				
GET	/items/{itemname: [a-zA-Z_0-9]*}				
POST	/items/{itemname: [a-zA-Z_0-9]*}				
DELETE	/items/{itemname: [a-zA-Z_0-9]*}				
GET	/items/{itemname: [a-zA-Z_0-9]*}/state				
PUT	/items/{itemname: [a-zA-Z_0-9]*}/state				
PUT	/items/{itemname: [a-zA-Z_0-9]*}/tags/{tag: [a-zA-Z_0-9]*}				
DELETE	/items/{itemname: [a-zA-Z_0-9]*}/tags/{tag: [a-zA-Z_0-9]*}				

Eclipse SmartHome 0.8.0

Admin &
Config UI



The screenshot shows the Eclipse SmartHome administration interface. The left sidebar contains navigation options: Control, Setup Wizard (1), Configuration (selected), Bindings, Groups, Things (selected), and Preferences. The main content area is titled 'Configuration > Things' and features a green '+' button for adding new things. Below this, three things are listed:

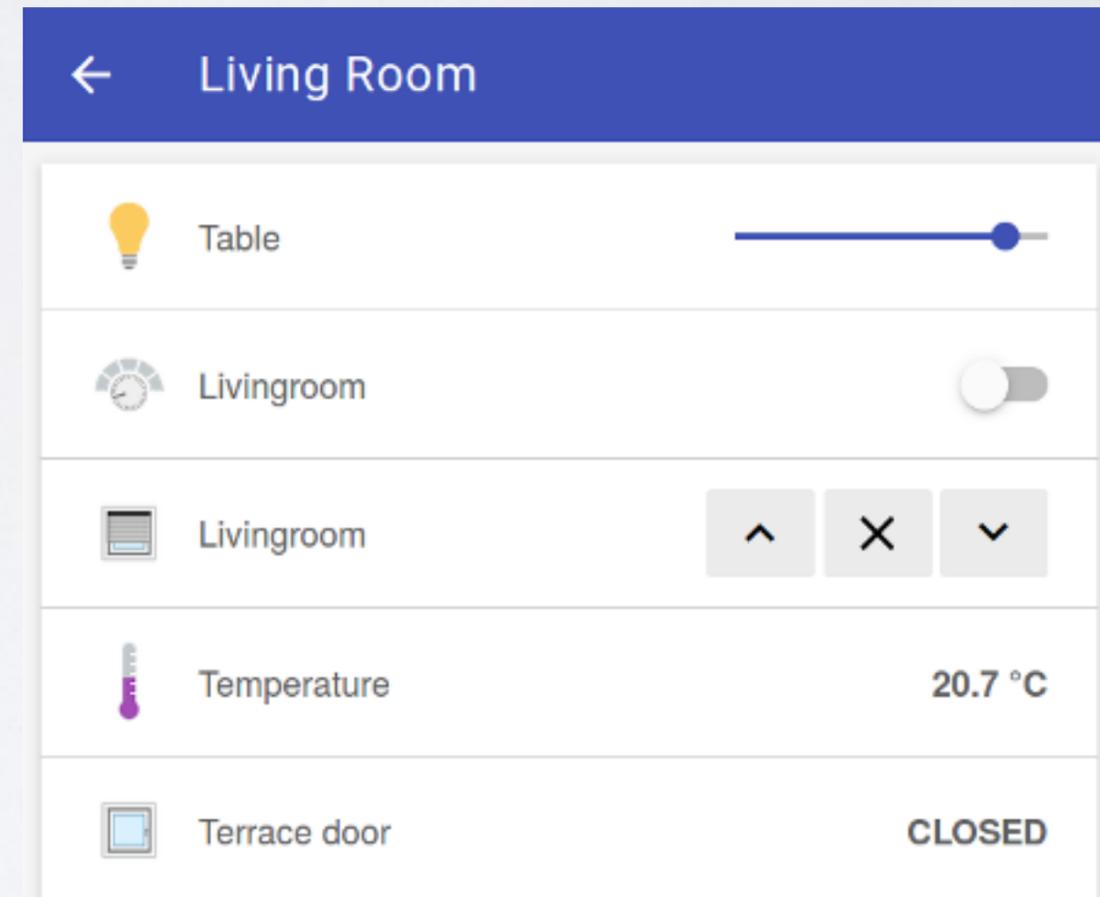
Thing ID	Name	Status	URI	Actions
W	Weather Information	ONLINE	yahooweather:weather:berlin	Edit, Delete
S	Astro sun data	ONLINE	astro:sun:home	Edit, Delete
M	RME Rain Manager	UNINITIALIZED	rme:manager:7ff1f6a3	Edit, Delete

Eclipse SmartHome 0.8.0

Classic UI



Basic UI



Eclipse SmartHome 0.8.0

New Bindings:

- Belkin WeMo
- LIFX
- NTP

+ ~30 at openHAB 2

Challenges

- IP process slow (many 3rd party deps)
- Maintainers needed!
- Java is not in focus for many IoT players
(see BT/BLE, AllJoyn, OIC, EnOcean etc.)

Outlook

- Integration with BT/BLE, AllJoyn, OIC, EnOcean etc.
- New Rule Engine!
- Whatever is contributed :-)

Solutions based on ESH

Eclipse SmartHome

OM2M

Vorto

Kura

Paho

Californium

Concierge

JVM

OS



THANKS!

Kai Kreuzer

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 @smarthome

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