

Document and example code

- <https://github.com/MozOpenHard/examples/tree/master/wotplugfest2015>

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Preparation Tests

Contact	Affiliation	Servient / Thing	Application	TD file	CoAP	HTTP	WS Messaging	JSON encoding	EXI encoding	Power outlets needed	Ethernet ports needed	Wifi needed	Internet Connectivity needed	Comments
Johannes Hund	Siemens	x	x	led_v02.jsonld	x	x	-	x	(x)	2	1	x	?	servient impl. for LED example and TD parser with client UI
Soumya Kanti Datta	INSTITUT TELECOM, France	x	x	TBA	-	x	-	x	-	1	-	x	?	TBA
Louay Bassbous	Fraunhofer FOKUS	x	x	door.jsonld, weather.jsonld, outlet.jsonld	-	x	x	x	-	2	1	x	?	Example
Kazuaki Nimura	Fujitsu	x	x	led_f.jsonld	-	x	-	x	-	2	-	x	-	WoT servient controlling LED
Naoki Sekiguchi	KDDI	x	x	sensor_I2C.jsonld	-	x	-	-	-	2	-	x	?	WoT servient implementation by web browser. Code and document are here https://github.com/MozOpenHard/examples/tree/master/wotplugfest2015 ↗
Jonathan Jeon	ETRI	O	O (smart home)	TBA	-	O	O	O	X	2	1	X	O	Interworking demo with ETRI's Thing Registry

Our motivation - Pervasive Browsers! -

Today, there are a lot of appliances which have a screen. And these graphical user interface provide comfortable user experience.

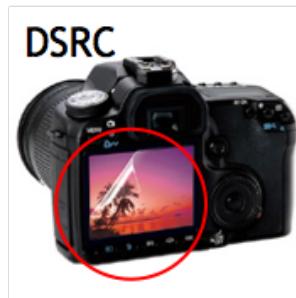
printer



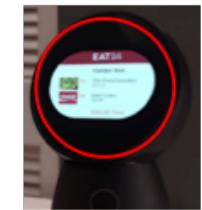
drone



DSRC



Jibo



cleaner



intercom



watch



car



thermostat



washing machine



train



refrigerator



wheelchair



In the future, WoT device also has a screen and provide GUI. Web browser has a nice UI to provide it.

Web designer wants to design not only GUI but also outside of screen such as lighting, temperature, smell, wind, and so on. They require to control sensor and actuator by web browser technology.

Lamp with browser UI



From Daisuke Akatsuka's slide

4D Movie theater



From Noriatsu Kudo's slide

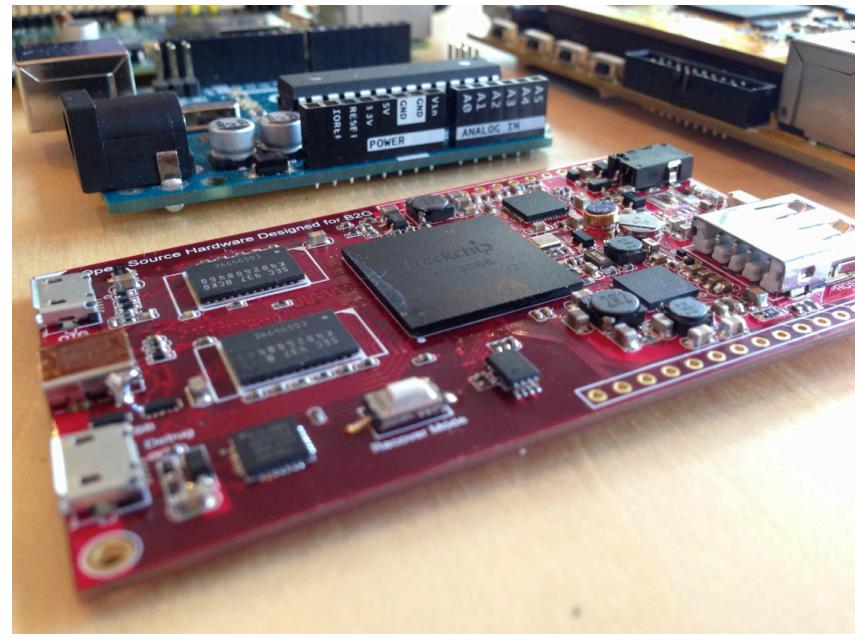
CHIRIMEN

Software:

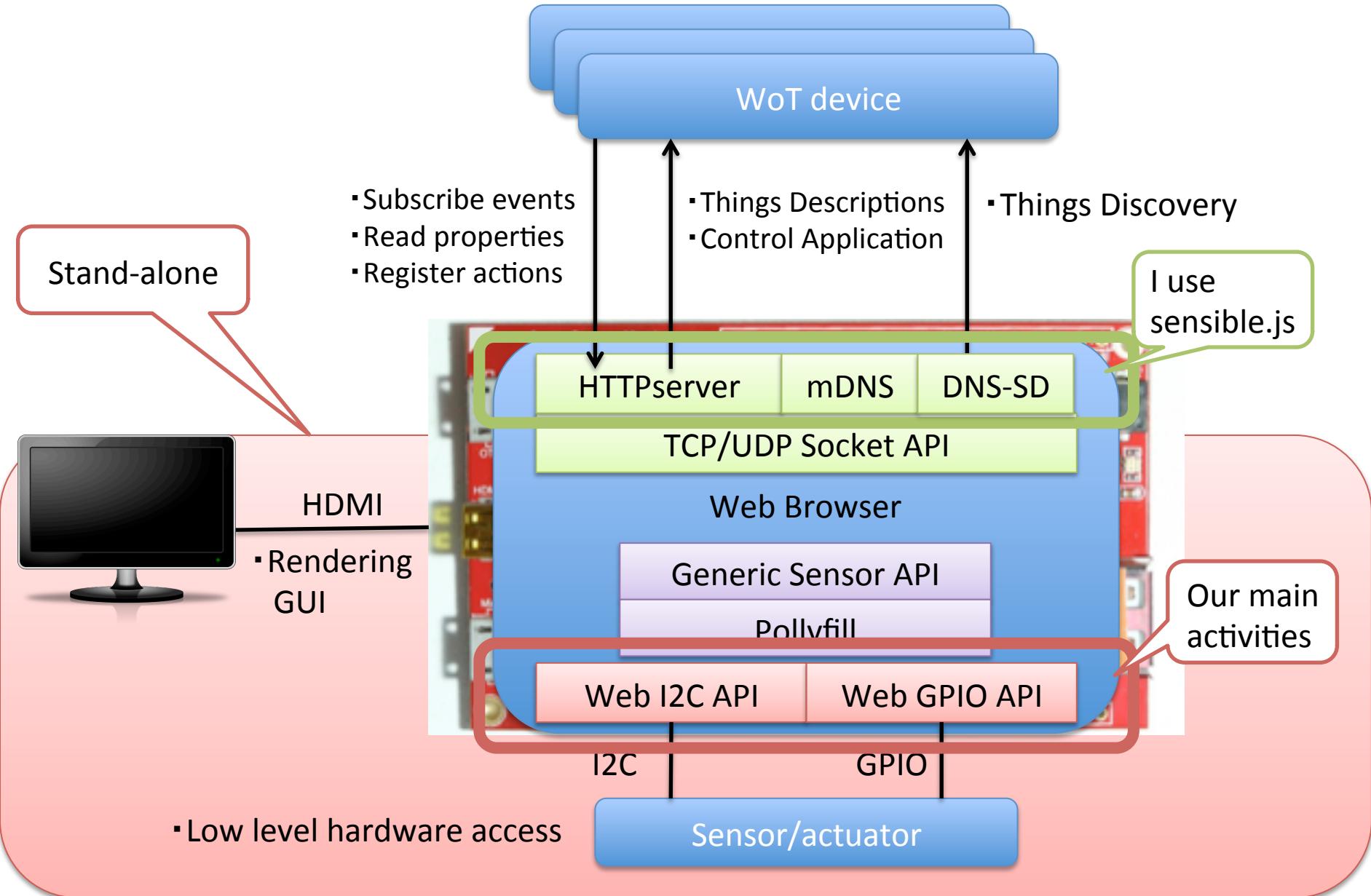
- Firefox OS 2.1
- Web I2C/GPIO API

Hardware:

- Rockchip RK3066 (1.6Ghz)
- 1GB DDR3 DRAM
- 8GB Nand Flash
- HDMI Micro x 1
- Micro SD Slot x 1
- USB (Micro x 2, Full x 1)
- I/O 28pin
(incl. I2C, UART, GPIO, SPI, Sound in/out etc)



WoT Device by CHIRIMEN



Plugfest Demo

- <http://100.64.19.186:8001/chirimen/brightness>
 - Response light sensor value. E.g. {value:20}
- <http://100.64.19.186:8001/chirimen/statechanged>
 - Response last emitted statechange event.
E.g. {name:name,id:_eventId,data:{src:"80:1F:02:6E:E5:6E:app://chirimenplugfest.org",time:new Date(),payload:payload}}

