

Siemens Corporate Technology | April 2015

Document structure for dissemination of use cases

Talk on Document Structure

Agenda

Motivation

Document Structure

Example

Contributing

Use cases are our reality check for technology picks

Why do we collect use cases?

- Provide real-world scenarios of technology usage
- Gather non-functional requirements of scenarios
- Define and explain common building blocks based on the scenarios
- Get each IG member on a broader scope of the WoT scenarios
- The aim is not full coverage, but the ability to map a technology to different scenarios



The future applications cannot be foreseen now therefore we need reusable building blocks

- When the Web was invented, the use case was static pages.
- **Tim Barners-Lee did not have cat videos in mind**
- Nobody thought of these use cases

amazon.com[®]



- However, the technology was planned to be generic
 - Modular and layered
 - Open for extension
 - Easy to use
 - Applicable to many different use cases

Therefore, we should identify generic technological building blocks that fit many use cases

Talk on Document Structure

Agenda

Motivation

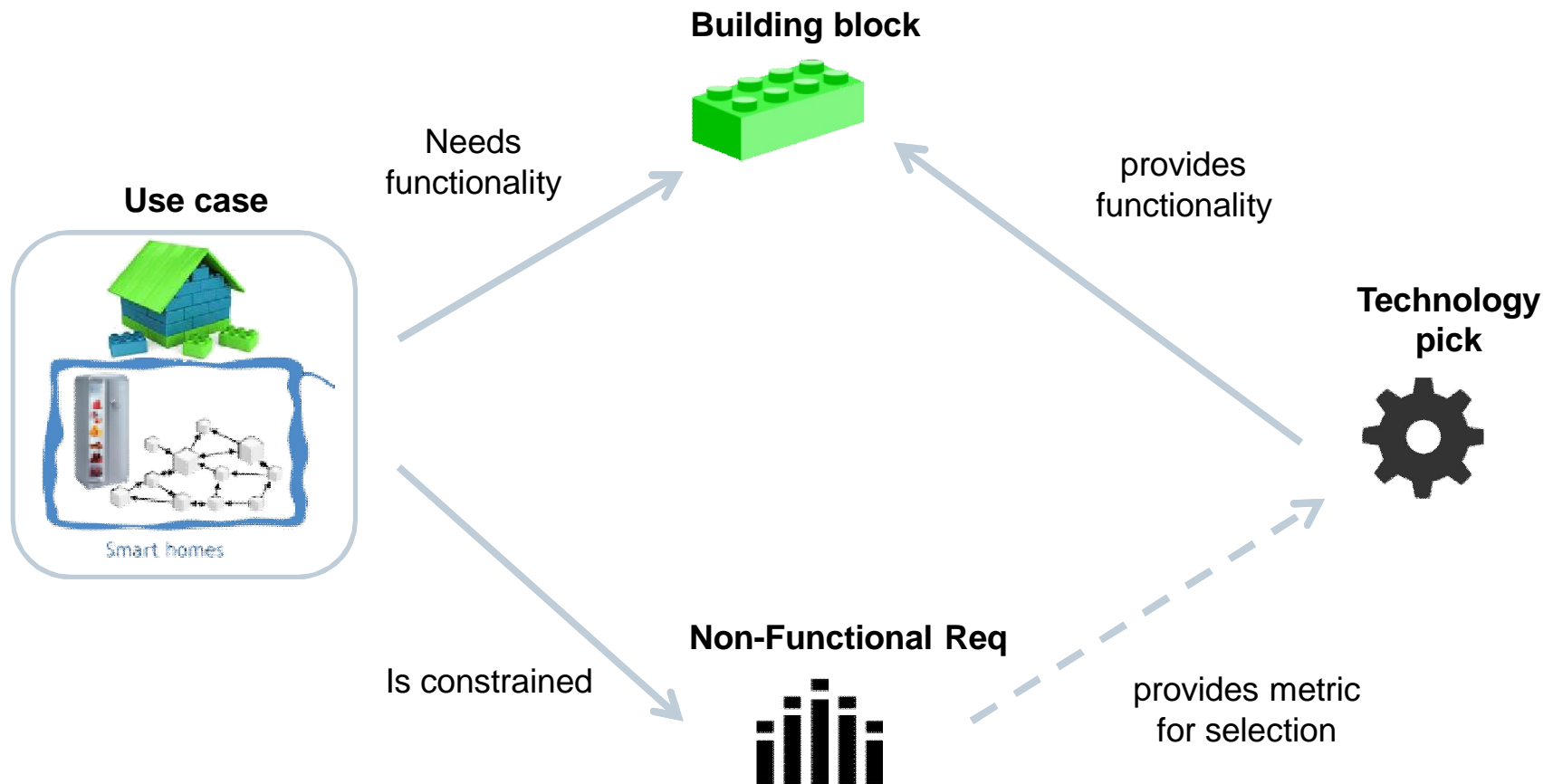
Document Structure

Example

Contributing

Use cases and technologies are linked through technological building blocks

Interrelation of building blocks, technologies, use cases and non-functional requirements



Talk on Document Structure

Agenda

Motivation

Document Structure

Example

Contributing

Examples for linking technologies, use cases and building blocks



Smart Hotel room
(image: koreatimes.co.kr)



Smart vending machine
(image: coca cola company)



Self-Order app
(image: straits times)



Discovery



Self-description



QR code



Physical web



SPARQL

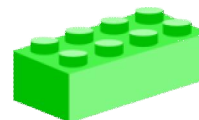


mDNS

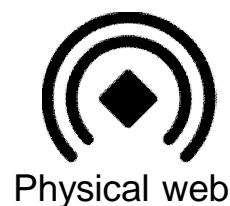


Swagger

Examples for evaluating technology picks on the use cases



Discovery



Connectivity	Local IP	Camera	Bluetooth	Local IP
Onboarding	Join Wifi	Scan code	Spatial proximity	Join Wifi
Local range	IP network	Line of sight	Bluetooth network	IP network
Wide-Area discovery	In roadmap	No	No	Possible, but Privacy issues

Talk on Document Structure

Agenda

Motivation

Document Structure

Example

Contributing

Document and Sources

Unofficial Draft

Use Cases and Requirements for the Web of Things





Unofficial Draft

Document: <http://w3c.github.io/wot/wot-ucr.html>

Sources on **GitHub** : <https://github.com/w3c/wot>

How to Contribute

We are using github workflow with a continous delivery toolchain

1. Go to repo  [w3c](#) / [wot](#)
2.  the repo to create your local copy
3. Add & commit your changes to your fork of [wot](#) / [ucr-doc](#) / [wot-ucr.xml](#)
4.  Discuss and review the changes in this comparison with others.
5. The pull request is 
6. The document is automatically updated

Questions? Comments? Contact us!

SIEMENS



Dr. Johannes Hund
Research Scientist
Embedded Networks

Siemens AG

Phone: +49 (89) 636 31815

Fax: +49 (89) 636 51115

E-mail:

johannes.hund@siemens.com

Twitter: h0ru5

GitHub: h0ru5

XMPP: h0ru5@johanneshund.de