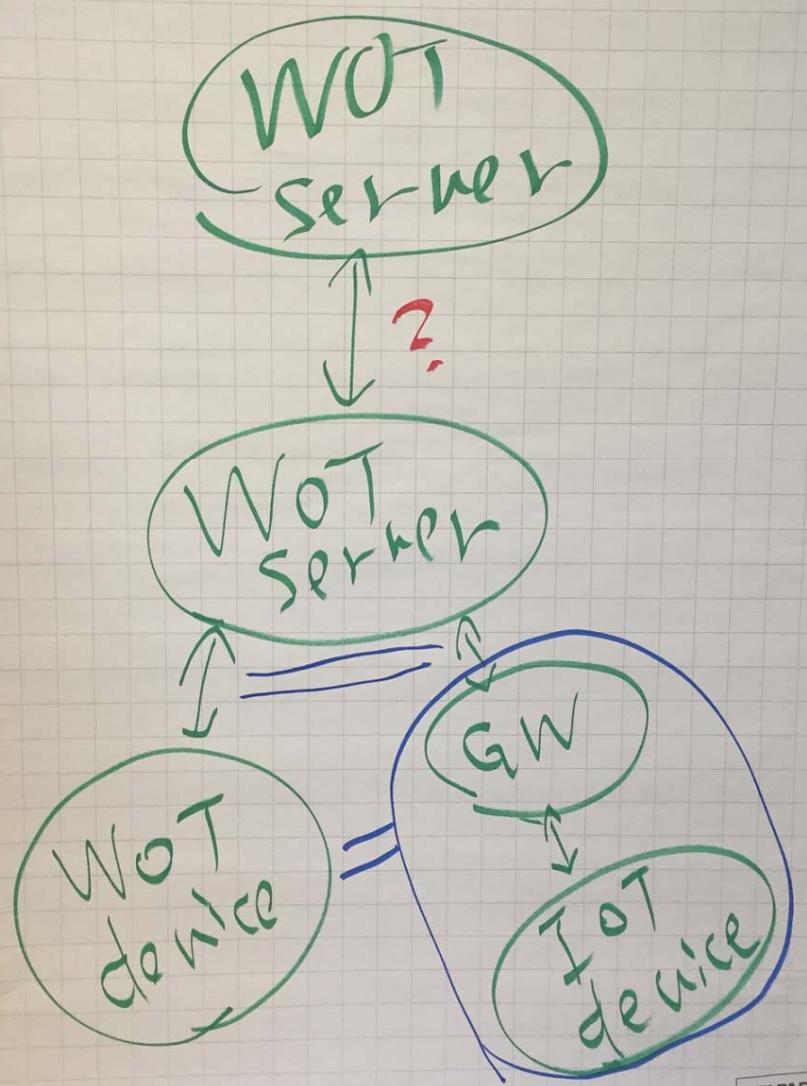


Protocol Mapping 5



- REST API model as starting ^{thing} description language model

Proposal ?

- minimum requirements?
- ~~interaction~~
- Architecture starting point
- Protocol Mapping
- APIs as Rest + X
- Security (Access control)
- Resource Management (resolve conflict)
- Nicer Name for WOT server

What is Protocol Mapping?

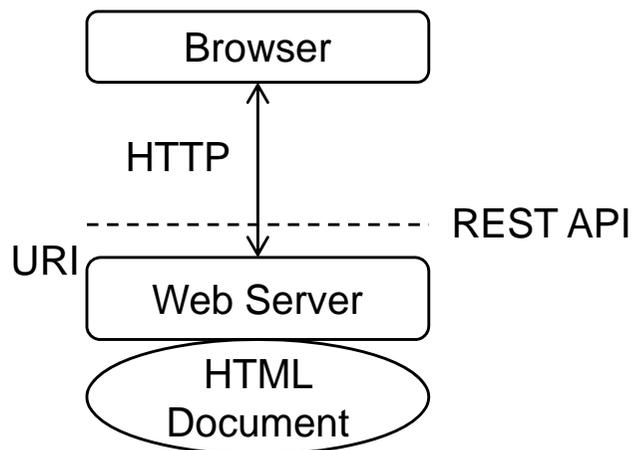
- WoT framework assumes “Web browsers” access and control “Things”.
 - Each industry field already has wide variety of concrete IoT protocols.
 - It might be impossible that web browsers directly handle all of IoT protocols.
- 
- It should be better to introduce “abstract protocol” handled by web browsers.
 - The framework, that a module in WoT architecture maps and translates “abstract protocol” to things accessible concrete IoT protocol, also should be introduced.

The model for Protocol Mapping

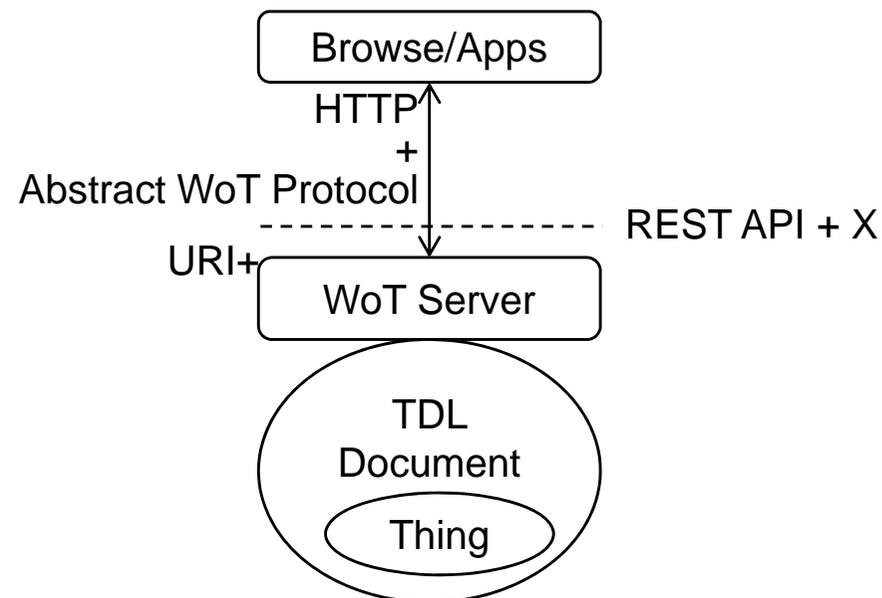
- WoT high level architectures and/or requirements for architecture **s** are proposed or implied through use case discussion at Munich F2F meeting.
- As starting point to discuss the model for protocol mapping, we should share common concept and image for WoT architectures (high level).
- And we should define “terminologies” properly to express common WoT architectures.

Comparison between Web and WoT skeleton architecture
(as starting point for high level architecture image sharing)

Web skeleton architecture.



WoT skeleton architecture.

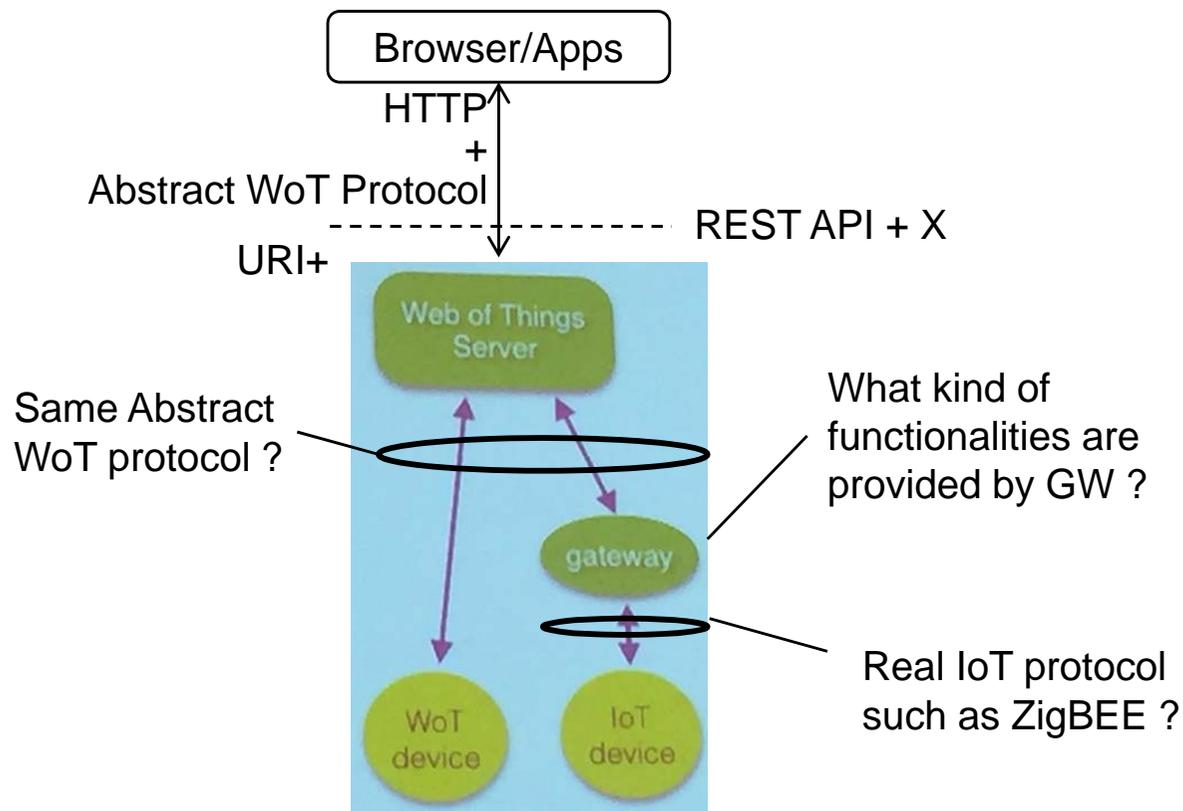


- What is the minimum requirement for (high level) WoT Server ?
- And we should share the terminologies definition.
- WoT Server is App or not ?

WoT finer architecture

- (high level) WoT Server could be defined by combined finer components to make it easier to map skeleton architecture to real world. (One better start point candidate is Dave's proposal at Apr.20th.)

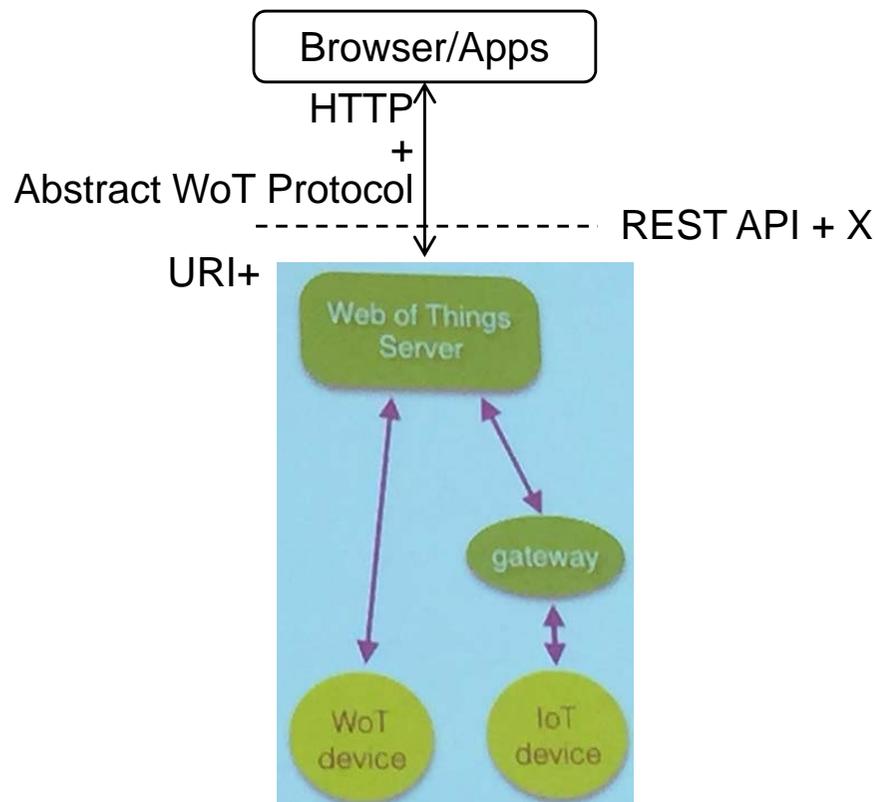
WoT finer architecture.



Take care issues

- In finer architecture, which module should do
 - (a) Protocol Mapping between abstract WoT protocol and IoT protocol
 - (b) Access Control that who and/or what object can access things
 - (c) Resource Management of finite real resources
 - (d) Constraint device requirements

WoT finer architecture.



Architecture Starting Point

