Attendees:

- Georg Ferdinand Schneider (Individual CLA but affiliated with Schaeffler)
- Joel Bender (Cornell University)
- Pouya Zangeneh (University of Toronto)
- María Poveda-Villalón (Universidad Politécnica de Madrid) (regrets: only 30-40 minutes)
- Maria Husmann (Siemens AG)
- Serge Chávez (Universidad Politécnica de Madrid)
- Gonçal Costa (LaSalle University)
- Edison Chung (MINES Saint-Etienne)
- Madhumitha Senthilvel (RWTH Aachen University)
- Mads Holten Rasmussen (NIRAS)
- Francisco Regateiro (Tecnico / Lisbon University)
- Herve Pruvost (Fraunhofer IIS EAS)
- Kris McGlinn
- Marjo Smit
- Alberto Giretti
- Calin Boje

Date and time

- 08/09/2020
- 17:00 - 18:30 CEST

Agenda (tentative)

1. Introduction
2. Organisational
   - Resume after summer break
   - W3C LBD CG meets ... - Selected Topics on Linked Data, Semantic Web and Graph Technologies in the Built Environment

08.09.2020	Exchange with the "W3C Web of Things (WoT) Working Group" with Sebastian Käbisch and Maria Husmann from Siemens AG
22.09.2020	n.n.
06.10.2020	"Building automation system - BIM integration using a linked data structure" by Jenn J. McArthur from Ryerson University (GoogleScholar)
20.10.2020	"Building A Knowledge Graph Of Commercial Real Estate At Cherre" by John Maiden from Cherre
03.11.2020	n.n.

17.11.2020	"[Towards the adoption of automated regulatory compliance checking in the built environment](#)" by [Thomas Beach](#) from Cardiff University ([GoogleScholar](#))
01.12.2020	"[Scan-to-graph: Semantic enrichment of existing building geometry](#)" by [Jeroen Werbrouck](#) from Ghent University

3. WoT
   - Exchange with the "W3C Web of Things (WoT) Working Group" with Sebastian Käbisch and Maria Husmann from Siemens AG
   - Discussion Alignments between WoT and W3C LBD CG (30 min)
4. Open space for discussions and group topics

Minutes

1. Introduction
2. Organisational
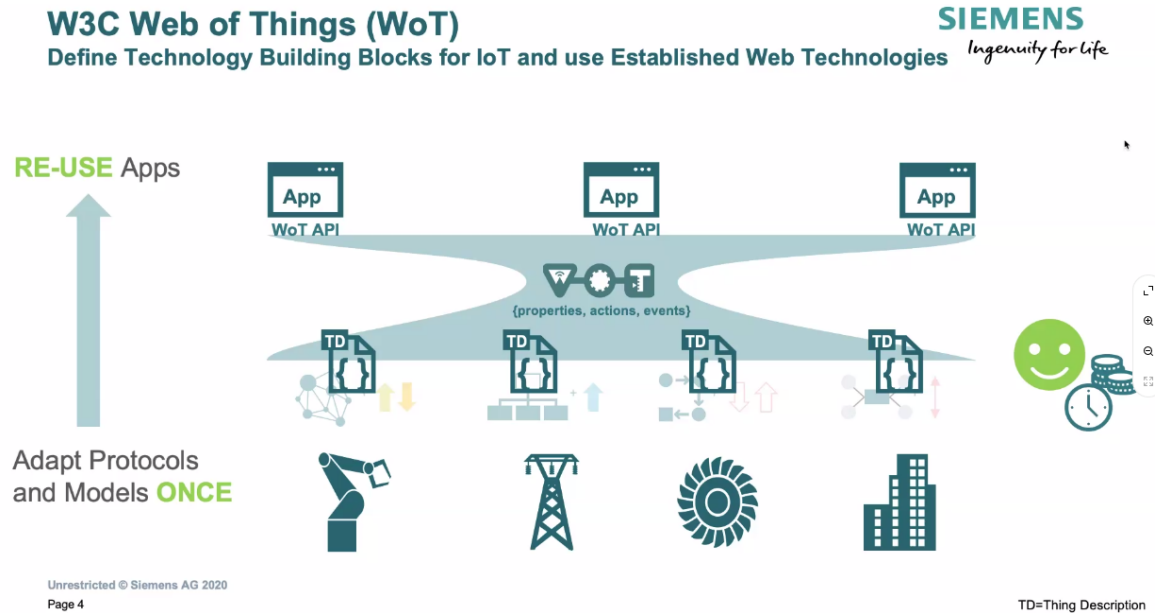   - Resume after summer break
   - W3C LBD CG meets ... - Selected Topics on Linked Data, Semantic Web and Graph Technologies in the Built Environment

08.09.2020	Exchange with the "[W3C Web of Things (WoT) Working Group](#)" with [Sebastian Käbisch](#) and [Maria Husmann](#) from Siemens AG
22.09.2020	n.n.
06.10.2020	"[Building automation system - BIM integration using a linked data structure](#)" by [Jenn J. McArthur](#) from Ryerson University ([GoogleScholar](#))
20.10.2020	"[Building A Knowledge Graph Of Commercial Real Estate At Cherre](#)" by [John Maiden](#) from [Cherre](#)
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3. WoT
   - Description of the "W3C Web of Things (WoT) Working Group" with Sebastian Käbisch and Maria Husmann from Siemens AG
     - Main problem in IoT applications: Integration of heterogeneous protocols, security, data model, domains

- Web technology as an enabler to reduce integration costs through open royalty-free standards
- Service orchestration in the web works fine. example holiday booking site, which integrates many different data sources
- Web of things:

- The Thing Description:

- Discussion Alignments between WoT and W3C LBD CG (30 min)

- - - Q [Georg]: WoT WG came from an interest group? How is the interplay of the WG and IG
  - - Q [Georg]: How do existing W3C standards help in WoT?
    - JSON LD
    - LD relation to other things
    - Contact point:
      a. https://github.com/TechnicalBuildingSystems/OpenSmartHomeData
      b. Building descriptions from IFC
  - - Q [Georg]: Meaning of Celsius vs. iot:Celsius ?
  - - Q [Georg]: Relate to other things e.g. Buildings -> Possible to relate from things, but still a point for open discussion
  - - Q [Georg]: How does WoT TD relate to other existing standards?
    - Q [Georg]: Thing Description vs. Asset Adminstration Shell from I4.0 Platform
      a. Thing descriptions is not comparable
      b. AAS is more a manual
      c. Runtime data is not involved
    - Q [Joel]: Is there a protocol mapping to BACnet like there is to MQTT?
      a. BACnet binding available as a prototype (unclear if freely available)
    - Q [Joel]: Is there a semantic mapping between these things and similar concepts in the CHIP (Connected Home over IP) effort in the Zigbee Alliance?

  - - Q [Marjo] How does the conversion happen from paper/ file-based descriptions of things to a TD?
    - Currently this is a manual process but if done in future at the same time with the manual description this can be done
    - Auto generate thing descriptions from BACnet (Maria Husmann)

- - ACTIONS: Present W3C CG LBD calls work on building modelling to W3C WoT IG/WG
  - - TPAC should be a good choice, allows to show CG also to broader audience, underline need for industry

4. Open space for discussions and group topics

Next Call

- 22/09/2020, Tue, 16:00-17:30@CEST/ 7:00-8:30@PDT/ 14:00-15:30@UTC

We are interested in getting suggestions from the community about potential agenda items for the following calls. Please send your suggestions to public-lbd@w3.org, whether you have a short presentation to bootstrap the discussion, and an approximate duration you think the discussion will last.

Previous minutes

https://docs.google.com/document/d/1vGWEwbvVk0wa9JaBJtUMqWqckfa2lASVcr1swsBIR-I/edit