Standardized Service Orchestration in Smart City

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Challenges in Smart City Scenarios

Monitoring

Controlling

AI

Cloud Services

(Commercial) Public Services

Time and cost intensive integration + maintenance

IoT asset’s interface based on their specific data models / functions, protocols and security mechanism
Questions

• How to challenge diversity in Smart Cities scenarios?
• How to simplify service orchestration?
Answer: Go for Open Standards

Example SDO: The potential of having standardized technology building blocks: The standardized technology building blocks for the Internet of Things:

More details, see presentation “The Web of Things in the Smart City”, Michael McCool (Intel) or visit: www.w3.org/WoT
Service Orchestration with Web of Things

Standardized & reusable WoT application layer for easy service composition

Simplified IoT asset onboarding + maintenance based on WoT Thing Description (TD) to describe the diversity

{ Properties, Actions, Events }
SayWoT! - A WoT Implementation for Service Orchestration

- Commercial WoT implementation by Siemens
- Concentrate on the data and functions of IoT assets for service orchestration, sayWoT does the rest
- In Production, e.g.,
  - Customer to control and monitor 3000 Things, 750k datapoints
  - Building block for Siemens Advanta solution business
- Interested? Get in touch with us!
Thank you for your attention

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