



EURECOM

S o p h i a A n t i p o l i s



W3C WoT IG Task Force on Discovery

Soumya Kanti Datta
Mobile Communications Department
Email: Soumya-Kanti.Datta@eurecom.fr

Scope of TF-DI

- **Provide a generic understanding of discovery**
 - From the context of Web of Things (WoT)
- **Survey of current landscape**
 - Understand existing approaches for discovery
 - Architectural considerations e.g. centralized, distributed
 - Means of interaction used for discovery
- **Dimensions of discovery**
 - Context, Location
 - Clarification with examples

Scope of TF-DI

- **Define and clarify**

- how Things Description (TD) could be used in discovery mechanism
- What are you trying to discover
- What are you discovering
 - In terms of physical thing, its description or URI
 - Resource, service and properties

- **How does discovery fits into overall WoT framework**

- **Agree on (will be part of the final deliverable)**

- Generic approach for discovery, protocol and metadata
- Taxonomy

Discussions

- **Discovery in general, requirements, purpose**
- **Use case analysis and deriving global discovery requirements**
- **Scopes and dimensions of discovery**
 - Scopes could be local and remote
 - Dimensions are considered in terms of context, location, humans (access control)
- **Building blocks**
 - Registration of things, life-cycle ...

Tech Landscape

■ Beacon based

- UriBeacon (Physical web from Google)
- iBeacon (from Apple)

■ Searching in directories

- Combination of CoAP and CoRE Resource directory
- XMPP IoT discovery

■ Metadata

- CoRE Link Format

Brainstorming

■ Open items

- How thing description could be a part of discovery
 - Use cases to consider where discovery of metadata is necessary
- Common vocabulary for TD and DI