

Discovery

Michael McCool 14 September 2023 TPAC 2023

Outline



Agenda (wiki) – 30m (20m presentation, 10m discussion)

- 1. Use Cases and Requirements (10m)
- 2. Work Items (5m)
- 3. Publication Finalization (5m)
- 4. Discussion: Proposed Plan (10m)

Use Cases and Requirements



- 1. <u>Last charter requirements</u> not fully satisfied:
 - Support various forms of query, including keyword, template, and semantic queries (currently: no mandatory query language)
 - Support spatial and sub-net limited queries (currently: no spatial queries)

2. <u>Use Cases and Requirements Document</u>

Multiple mentions, but no complete requirements No connection from requirements to use cases

- Horizontal "Use Case"
- <u>Functional Requirements</u> high level requirements
- <u>Technical Requirements</u> detailed requirements

Work Items



<u>Planned Work Items</u> (prioritized)

Higher

- Queries: Filters, JSON Path, Sort-by
- New Introductions: MQTT, OPC UA
- Other: Security (e.g. Signing), Validation, TD Versions, Version Selection

Lower

- CoAP Directory Service
- Geolocation (queries; needs to be coordinated w/ data model in TD)
 - Propose to structure as an additional "query filter"

Publication Finalization



- 1. Still need ontology for DID vocabulary related to WoT Discovery
 - https://github.com/w3c/wot-discovery/issues/402
 - https://github.com/w3c/wot-discovery/issues/467
 - https://github.com/w3c/wot-discovery/issues/509
 - https://github.com/w3c/wot-discovery/pull/512
 - https://github.com/w3c/wot-discovery/pull/511
- 2. Needs to be published at a "fetchable" URL
 - Requirement before DID will add to registry
 - https://github.com/w3c/did-spec-registries/pull/486/files
- 3. Would like to get this done before Recommendation status

Discussion: Proposed Plan



- 1. Update UC&R with Discovery Requirements
 - 1. Follow format in <u>last charter requirements</u>
 - 2. Include already-satisfied requirements (Q: how to track this?)
 - 3. Link each requirement to one or more use cases
 - Will have to consider whether "categories" would be useful here
- 2. Link Work Items (proposed new features) to Requirements
- 3. Address Work items
 - 1. In priority order
 - 2. Items without dependencies first
 - e.g. signing deferred until we when when/if and what form it will take

Other Discussions



- CG: multi-protocol support, e.g. MQTT
- CA: have some CoAP, can start there, can extend CoRE-RD. Start simple first, e.g. read-only directories, just e.g. for self-description