



Discovery

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Outline

- Discovery Editor's Draft Review – What's New
- Open Issues
- Implementation and Testing Gaps

What's New

Editor's Draft Review

- TD Refactoring
 - Property for listing all TDs, Actions for queries
 - Renaming of interactions (nouns for properties, verbs for actions)
 - Separate events for different notifications
- Embedded metadata (Enriched TDs)
 - Ontology
 - Registration information, including expiry datetime

Embedded Metadata and Thing Types

- Registration information
 - Optional information that can be included in an "Enriched TD"
 - Includes relative/absolute expiry time support
- TD Types
 - Thing Link: <https://github.com/w3c/wot-discovery/pull/207> (examples)
- Both have/need ontology support

Open Issues

- Pagination using explicit JSON payload
- TD/TM appropriateness for describing Discovery API
 - When to use actions vs. properties
 - No standard way to support collections
 - No standard way to support dynamic resources
 - Chunking, use of HEAD, PATCH, etc.
- RDF Framing and round-tripping
- Canonicalization and Signing (pending addition to TDs...)
- Validation
 - How to deal with extensions

Implementation and Testing Gaps

- Elements that Need Testing
 - Introductions: DNS-SD, DID, CoRE RD
 - Explorations
 - Self-Description
 - Directory Service
- Directory Service
 - Largest part of the specification
 - Two separate implementations in progress
 - Start on a test suite, tool integration
 - Gaps/challenges:
 - Only one committed to (the optional...) SPARQL implementation
 - Query mechanisms (e.g. JSON Path) very "large" – how to validate?
 - JSON Path specification still in draft (with IETF)