

WISHI at the IETF102 Hackathon

July 14th and 15th, Montreal

Goals and Preparation

Technical Focus

- Application scenarios
 - Orchestration across multiple things
 - Cross-domain applications
- System view
 - things, directories, applications, proxies working together
- Workflow
 - Discovery, Configuration, Operation
- Feature of Interest
 - Selective discovery and configuration
 - Application can include real-world features

Design Patterns, Application Stack

- Semantic Annotation
 - "What to do"
 - Interaction descriptions in TD
 - Annotated hypermedia controls
- Data model and Protocol Adaptation
 - "How to do it"
 - Forms in TD
 - Other serializations for SW adaptation
 - Gateways, Bridges, Translators

Logistics

- LAN/WAN connectivity
- Online Interop
- Participation planning documents – living document – github pages, wiki, edit .md
- Update the IETF Hackathon Wiki, motivate people to join, point to the planning materials [MJK action]
- Pointers to examples of files that people can work with early
- Breakout during the weekend to rationalize the work
- Pre-planning meeting at the beginning
- Stand-up meetings per Agile – 4 hour cadence

Tools and Technology

- node-wot
- Thing Directory
- iot.schema.org – Feature of Interest, e.g. from Haystack, GENIVI, other vocabularies
- Explore alternate semantic integration techniques
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- Alternate serialization and annotation

W3C Web of Things Plugfest

- June 30 and July 1st in South Korea
- Focus on Semantic Interoperability, Protocol Proxies
 - Feature of Interest integration
 - End-to-end application scenarios
- More Diverse Protocol Bindings
 - Dynamically created interactions for Actions and Subscriptions
 - Websocket connection for notifications
 - Webhook pattern
 - Subprotocol for multiplexed event streams over Webhooks, Websockets, EventSource