



HACKATHON

<IETF 104 / Prague>

Focus (a couple of weeks ago)

- Implementation of 3 XMPP clients
 - Orchestrator
 - Endpoint
 - Repository
- Add extensions to perform simple operations between components
 - Orchestrator performs simple query to repository for content
 - Orchestrator instructs endpoint to perform an assessment

Focus (Start of Hackathon)

- Henk brought a colleague, Carl-Heinz Genzel to the Hackathon
- Carl-Heinz brought a java implementation of a MAP client and server, basically a pub/sub broker, which could store CBOR-encoded information, links, and metadata in an object graph

What did we do?

- Introductions
- Overviews
 - We each gave an overview of our projects and discussed how they could be used together
- Decisions
 - We decided on and implemented 2 workflows:
 - A simple XMPP client acting as a MAP client to publish information directly
 - A more complicated pub/sub-based implementation of the orchestration of posture attribute collection and publishing to a repository.

The Easy

- We added a pub/sub (MAP) client to the "Collector" XMPP client in order to publish collection/assessment results to graph data model.

The More Difficult

- We took it a step further and used the Orchestrator to request an Endpoint to perform a collection and publish the collected information to the MAP client
 - We did this with a purely pub/sub approach.

Lessons Learned

- Map server and graph data model is a very promising candidate for repository data
 - Provides links between policy data, collected information, and endpoints.
 - Allows for unlimited amounts of metadata to be added to associations and nodes within the graph
- Current architecture seems more focused on transport than it does on actual interactions, data models, and interoperability between components.

What's next?

- Continue the progress we've made
 - Interim Hackathons
 - Focus efforts on defining interactions and information/data models to inform and refine the draft
- Better preparations and planning for both interim and IETF-hosted hackathons
 - Bill will take the lead on this
- Reviving and revising the information model
 - We need a minimum set of information elements to facilitate the interactions between components.
- **BIG THANKS** to Carl-Heinz for his contributions to the Hackathon