CCS Workshop – discussion questions on technology options

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Generating data – “real” world driving
Discussion topic for CCS workshop

- Would it be useful to have the driving simulator to run easily?
- -> Collect data from multiple people
- Would you use it to provide data?
Generating data – high volume
Discussion topic for CCS workshop

- Randomly generated data

- Are there technologies for doing this within certain constraints? … or do we need to write some custom code

→ cangen, can generate random data
can-utils… [https://github.com/linux-can/can-utils](https://github.com/linux-can/can-utils)
[https://manpages.debian.org/stretch-backports/can-utils/cansend.1.en.html](https://manpages.debian.org/stretch-backports/can-utils/cansend.1.en.html)
Alternative technologies
Discussion topic for CCS workshop

- In addition to W3C Gen 2 protocol, what other technologies should we try?
  - Propose protocols
    -> MQTT + payload definition
  - Propose databases
    NoSQL style databases? Which ones?
  - Propose frameworks
    Ditto (Eclipse)?
Evaluating the implementation(s) - performance
Discussion topic for CCS workshop

- Can you propose technologies for measuring performance?
- Technologies for throttling bandwidth down (for testing)
- … for introducing faults / corruption
Evaluating the implementation(s) - security
Discussion topic for CCS workshop

- Can you propose technologies for security testing (fuzzing)?
Growing the PoC – high volume
Discussion topic for CCS workshop

- Nowadays cloud deployment is 99% about *containers*… :-/

- Demo PoC already plan to “package” components using **Docker**, for easy reproduction and perhaps testing all parts on a single PC

- But what about large scale deployments?
  → Other container tools (Kubernetes, etc.) are required, and server maintenance etc.

- Do you have experience to share -- can you be part of the implementation?
Privacy expectations

Discussion topic for CCS workshop

- To drive the implementation of a use-case we need input
- 1. Categorize data into privacy-sensitivity categories
  - Is there some starting point?
- Use-case to implement and demonstrate?
  - Scrubbing of identifiers…
  - User consent…
  - User consent withdrawal – what happens?
    -> data retention
- EU privacy guidelines?

- Workshop proposal - study CAMP project V2X privacy/anonymization aspect?