Edge and IoT

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COINRG @ IETF 104, Prague, Czechia, 28 Mar 2019

T2TRG Edge Refresher

- IETF 98 (Chicago)
  - Breakout on Edge Computing
- IETF 99 (Prague)
  - Compiled results
- IETF 100 (Singapore)
  - Survey and gap analysis
  - BEC problem statement (“Beyond Edge Computing”, operator view)
- IETF 103 (Bangkok)
  - Use cases
  - Engineering Items vs Research Topics
  - Joined COIN meeting
- IETF 104 (Prague)
  - Discussion at Pre-IETF Work Meeting

Questions

- Is T2TRG the right research group?
  - Possibly with regards to the distributed and lightweight aspects of some challenges
  - Yes, for a device-centric view and IoT application domains
- Does T2TRG have enough interested people to work on IoT Edge Computing?
  - Yes, in particular for industrial applications
- How is our relation to COINRG?
  - Move Edge Computing topic there? (no, as we identified enough interest)
  - Provide Thing-centric input?
- How is BEC?

T2TRG Discussion Examples

- IoT devices require supporting services
  - Compute, storage, …
  - How can devices discover the right services?
- What are natural edge nodes?
  - For configuration, the smartphone has become the default
  - What is the compute or storage equivalent?

- Need to focus on application domains
  - Methodology might be the same, but use cases are different
  - High interest in industrial, while consumer applications are our daily examples
- Is virtualization in scope? (e.g., unikernels)
  - Bindings or orchestration logic needs to “live” somewhere
  - Lifecycle is different from devices
  - Problems in scope are probably interfaces and consensus among Things

Next Steps

- Interest in a liaison between COINRG and T2TRG?
- How to coordinate?
- Ideas for first work items?

Contact

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