ALTO Extension: Path Vector

draft-ietf-alto-path-vector-03

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Update Overview

- Text edits, e.g., clarification of the use case example
- Structure: made clear the three building blocks in the design overview section (Section 4)
  - New cost type: cost-mode: array; cost-metric: ane
  - New domain: ANE domain
  - Consistency mechanism to support consistent info about (1) path vector and (2) vector element properties
- Reorganize the document with one section for each building block
  - Cost type (Section 5)
    - ANE domain (Section 6)
    - Consistency mechanism (Section 7)
Document Updates on ANE Domain

- Moved the ANE domain from unified property (UP) to this document [already discussed in UP slot]
- Detailed specification of ANE Domain (Section 6.2)
  - Domain Name: ane
  - Domain-Specific Entity Addresses: Section 6.2.2
  - Hierarchy and Inheritance: None
- “ane” domain registration in ALTO Entity Domain Registry (Section 11.3)
Document Updates on Consistency Mechanism

• Clarify the main issue:
  – Coupling between the pv vector info and the properties of the elements returned in the path vectors
  – Difference between this coupling and <costmap,networkmap> coupling:
    • cost map info depends on network map info; but the generation of the network map is not dependent on the cost map
    • in some cases, the abstract network elements in PV can depend on the particular query (Filtered Cost Map)
      – Hence, they have a stronger coupling
Discussions and Next Steps

• More feedback and design evaluations on the consistency mechanism design
Q & A

Thanks