

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