RAW multidomain extensions

draft-bernardos-raw-multidomain-00

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Aim and scope

• Current scope of the WG is mostly focused on single-domain

• There are scenarios requiring multidomain RAW
  • where hosts are connected to different RAW domains and they need to communicate to each other with certain reliability and/or availability guarantees
  • E.g., in large factories where networks might be organized in domains (per production lines or building/sites)

• Goal is to explore current RAW multi-domain gaps (arch, OAM, etc) and propose solutions
Exemplary scenario
Proposed extensions

1. Path compute req
(s=node1-2, d=node2-3, SLA)

2. Path compute req
(s={node2-1, node2-2},
d=node2-3)

3. Path compute resp
({tracks2}, {links_quality})

4. Path compute resp
({{tracks1}, {tracks2}},
PSE={node2-1, node2-2},
{SLA1, SLA2})

5. RAW inter-domain path
({{tracks1}, {tracks2}}, {SLA1, SLA2})

6. RAW inter-domain path ACK

7. RAW OAM(flow/track, SLA1)

8. RAW OAM (flow/track, metrics)
Summary and next steps

- Is there interest in this problem in the WG?
  - Many gaps to identify and address (e.g., OAM)
  - Potential new protocol work needed
  - Relation to DETNET

- Please share your comments on the ML