Open Questions in Path-Aware Networking
draft-trammell-panrg-questions-01

Brian Trammell (as individual)
PANRG — IETF 100 Singapore — 16 November 2017
Some Questions

• how are path properties defined and represented?

  *this question remains open*
  
  work item: list possibly-useful path properties

• how do endpoints discover trustworthy path properties?

  SCION and ALTO represent points in this design space.

• how can endpoints select paths to use for traffic in a way that can be trusted by the network

  addressing- and PCFS-based approaches may work.
More Questions

- how can interfaces to the transport and application layers support the use of path awareness?
  
  Post Sockets (in TAPS) could be adapted to path-aware architectures. work item: define design space for path-aware transports

- how can a path aware network in a path aware internetwork be effectively operated?  *this question remains open*

- how can the incentives of network operators and end-users be aligned to realize the vision of path aware networking?
  
  *this question remains open*