# Privacy issues in ID/locator

draft-nordmark-id-loc-privacy-00
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# Some background and history

- IDEAS BoF
  - Some privacy solutions were discussed
- ATICK BoF proposal
  - Privacy stated as important
- Draft is an attempt to trigger some more detailed discussion around privacy
  - Threats and not about solutions

# My Assumption in the draft

- Endpoints could have many and ephemeral identifiers with non-linkability properties
- Some sessions might want to survive mobility and multihoming events. Need an identifier which survives
- Thus focus on a single long-lived identifier
  - Ephemerals could improve things but can't be the only answer

#### Some observations

- Why id/loc and exposing locators
  - o Latency, bandwidth, autonomy/fault isolation
- Who and when?
  - OK? to expose IP location to friend while streaming video efficiently; not at other times or to other people
  - OK? to expose route optimization within autonomous system - similar to routing protocol
  - OK? For asset owner to track their trucks/machines

### Different privacy threats

- Location privacy
  - Observer can determine the current IP locators
  - o From packet?
- Movement (event) privacy
  - Observer can tell that identifier moved at time T
  - Can be correlated with other info (video, motion sensors) to determine who and where

# Next steps?

- ID/loc system can be used improve location privacy (Tom Herbert)
  - Use a fixed anchor point locator
  - Less revealing than IP addresses as you move
  - Implies increased latency and more infrastructure dependency
- Who want to contribute?