ALTO Deployment Considerations
draft-ietf-alto-deployments-03

IETF#82, Taipei, Taiwan
November 15, 2011

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Changes in -03

- new Section 5. about ALTO for CDNs
- new Section 4.1. about Using ALTO for Tracker-based Peer-to-Peer
ALTO for CDNs

- Request Routing using the Endpoint Cost Service
  - ALTO Topology Vs. Network Topology
  - Topology Computation and ECS Delivery
  - Ranking Service
  - Ranking and Network Events
  - Caching and Lifetime
  - Redirection
  - Groups and Costs
Using ALTO for Tracker-based Peer-to-Peer

• Section provides reasoning why combining ALTO with a tracker is a good thing
Recap: Who is querying ALTO?

Peer is querying ALTO

Tracker is querying ALTO
The need for 3rd party ALTO queries
Why a peer-based solution may be not sufficient

- Peer-based ALTO queries
- Tracker-based ALTO queries

• Numerical example
  - Swarm with 10,000 peers, 100 desirable peers, 100 entries in tracker result list
  - Regular query to the tracker yields (as input for later ALTO query) ...
    • With probability 36%, the return list contains not a single favorable peer
    • With probability 99%, there are only four or less of the favorable peers on the list
      - Peer-based ALTO query does not see enough “good” peers

⇒ Peer-based ALTO queries of limited benefit in tracker-based P2P system
Next Steps

• Adjust list of authors
  – put main contributors up to the authors list
• Needs further input from
  – implementers
  – people who operate ALTO server or clients
• Needs review from the WG
Thank you
and
Time for your questions!