ALTO Server Discovery

draft-song-alto-server-discovery-03

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Changes

- Delete text about the application-centric deployment scenario

- Align with the ALTO protocol draft and reference to 3rd party discovery draft
Deployment

• ALTO servers are deployed within each ISP with “my internet view”
• Application clients may cross multiple ISPs
Discovery Clients

• Peers
  – Discover its own ALTO server, communicate with the ALTO server itself
  – Discover its own ALTO server and report to the resource directory (e.g. Tracker), resource directory entity will communicate with the ALTO server on behalf of the peer

• Resource Directory Entity
  – Discovery the ALTO servers for its peers (cache the [peer/ALTO server] map locally)
    • Tracker
    • Super peer
  – Using public address of the requesting peer to determine its domain
Mechanisms

• Different mechanisms can be used in different scenarios
  – DNS
    • reuse DHCP option in Geopriv for access domain name
    • reverse DNS lookup for domain name is not always reliable
  – other mechanisms
Security Considerations

• Whether ALTO server allowing access from IP addresses out of this ISP may impact the discovery
  – If not, do not need ALTO discovery client in the Tracker or super peer
Next Step

• Add considerations about IPv4/IPv6
• Further discussion in the list
Thank you!