

ALTO Server Discovery

draft-song-alto-server-discovery-03

H. Song G. Garcia
M. Tomsu V. Pascual
Y. Wang

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
 - Discover 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
 - DHCP
 - reuse DHCP option in Geopriv for access domain name
 - DNS
 - Provisioning in application
 - Manual configuration
 - Multicast and broadcast
 - caching

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

- Shall we adopt it as a WG item?

Thank you!