

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
 - 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
 - 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!