Application Layer Traffic Optimization (ALTO) Cross-Domain Server Discovery

draft-ietf-alto-xdom-disc-01

Sebastian Kiesel

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What it does – Recent changes – Next steps

- **Interface:** `IRD_URI = XDOM-DISC( IP_prefix , "ALTO" );`
- Looks for ALTO NAPTR records in `in-addr.arpa.` / `ip6.arpa.`
- Adoption of RFC 7216 (GEOPRIV LIS Discovery)

- **Intended semantics:** those (ISP, IT dept.) who control the "reverse DNS" for a given IP address/prefix X publish in DNS:

  If you want to optimize traffic from/to IP prefix X, query the ALTO server with `IRD_URI = XDOM-DISC( X , "ALTO" );`

  - More explicit than just assuming that a "nearby" server discovered with RFC 7286 will have the best knowledge
  - Works with ALTO clients outside of X's access network, which perform queries on behalf of X
  - DNS: universally deployed, delegation (on IP prefixes)

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What it does – **Recent changes** – Next steps

Changes since -00

- Clarify the algorithm, if called with an IP prefix as parameter
  - formerly only for IP addresses
  - that's a trivial change, still a straightforward adoption of RFC7216

- Clarify the usage with ALTO's Map and Map-filtering services
  - the mechanism is most useful in conjunction with the Endpoint Property and Endpoint Cost services, nevertheless …
  - … describe the interaction with the Map and Map-filtering services, for the sake of completeness

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What it does – Recent changes – **Next steps**

Status

- Incorporated the feedback from several reviews,
  some editorial issues tbd. Thanks to all reviewers!
- The algorithm as such is stable for quite a long time;
  the recent clarification wrt. prefixes is only a minor change
- We have presented a prototype implementation
- The description of the interaction with the
  ALTO base protocol is now complete

Next Steps

- **Ready for Working Group Last Call**