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

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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)
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
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