

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

draft-kiesel-alto-xdom-disc-02

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What it does – How to use – Next steps

- Interface: `IRD_URI = XDOM-DISC(IP_address , “ALTO”);`
- Looks for ALTO NAPTR records in `in-addr.arpa. / ip6.arpa.`
 - Not a wonderful solution, but probably the best thing we can do; see requirements and solution approaches analysis in the draft
- Straightforward adoption of RFC 7216 (GEOPRIV LIS disc.)
- We do have a prototype implementation
- The draft has been reviewed lately
 - Thanks to Kai, Mingming, Richard, Wendy, Xin!
 - The algorithm’s specification (Sec. 2) seems to be clear

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What it does – How to use – Next steps

- 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 addr. 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
- Well-understood interaction with ALTO’s
 - Endpoint Property Service
 - Endpoint Cost Service
- TBD: interaction with other ALTO services

New version of the draft needed, based on reviewer’s questions – only clarifications, no change to the scheme

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What it does – How to use – **Next steps**

Status

- The algorithm as such is stable for quite a long time; it is specified clearly; we have a prototype implementation
- Recently, we got a common understanding among several key contributors, how this can be used with some very important ALTO services

Next Steps

- Adopt as a WG item?