ALTO Requirements

`draft-ietf-alto-reqs-05`

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Editorial changes since -04

- Authors: Laird Popkin has been inactive for a long time. Martin Stiemerling volunteered to join the author team. Thanks to Laird and Martin for past and future support!

- Removed lots of spelling errors

New/Changed requirements since -04

- REQ. ARv05-29 : "Target audience" in ALTO reply
  - ALTO server indicates which resource consumers can benefit from the provided guidance
  - Peers can redistribute the ALTO reply to other peers in the target aud.
  - Trackers can use the same ALTO reply to optimize peer lists sent to different peers in the target audience
  - ➢ Load reduction on the ALTO server!

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REQ.  ARv05-29: The ALTO client protocol SHOULD allow the ALTO server to specify
a "target audience" in an ALTO reply.  This is a set of resource consumers
(expressed, e.g., as a list of host group descriptors).  The guidance provided in
the respective ALTO reply can be used and possibly re-used during the specified
lifetime by or for the resource consumers in the "target audience".  Re-using may
include redistributing the ALTO reply to other parties in the specified set, as
well as using the same ALTO information in a resource directory to improve the
replies to different resource consumers.
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Next Steps

- Currently, no open issues wrt. the requirements or other normative sections

- Lots of non-normative text in the queue:
  - Map-based approaches vs. per-user attributes
  - Provisioned bandwitdh likely to be harmful
  - ALTO-based selection after random pre-selection most often yields unsatisfactory results
  - …

  Most of them (as well as much existing text) should better go to the deployment scenarios draft, if we decide it to become a WG document.