

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 for his contributions!
- 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!

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. *[Proposal: add] The ALTO server MAY specify a "target audience" in the ALTO reply, which is only a subset of the known actual "target audience", e.g., if required by operator policies.*

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 bandwidth 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.