Deployment considerations
draft-ietf-alto-deployments-07

Martin Stiemerling, Sebastian Kiesel, Stefano Previdi, **Michael Scharf**

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Scope of draft-ietf-alto-deployments

- ALTO charter item

  - Objective: An **informational document** discussing **deployment related issues** and documenting **lessons learned from early implementation experiences**

  - Milestone: Aug 2011 ;)

- Document history

  - Significant text improvements until -03 in 2011

  - However, only minor updates afterwards

- Document needs further work and reviews

  - Referenced in draft-ietf-alto-protocol regarding various operational aspects

  - There *are* lessons learned from early implementations/prototoypes

- ➔ draft-ietf-alto-deployments-07 is a first step

Table of Content

Table of Content with Main Updates in -07

Diff in -07

- Section 2 ("General Considerations"): Removal of P2P terminology
  - Mainly small rewording (e.g., avoid the term "tracker")
  - P2P specific issues are addressed in Section 4

- Section 2.2: New text on design space for ALTO deployments
  - Trust model: Inter-domain vs. intra-domain use
  - User group: Unlimited access to server vs. closed group with AAA
  - Destinations: Guidance for all Internet destinations vs. more limited scope
  - ➜ Unlimited, inter-domain without access control is not the only deployment option (cf. ALTO drafts on CDN, LMAP, SDN, etc.)

- Section 3.1 ("Requirement by ISPs")
  - Includes requirements of ISPs other than reduction of inter-domain traffic
  - More work needed

Diff in -07 (contd.)

- Section 7.1 ("Limitations of Map-based Approaches")
  - New text on implications of dynamic IP routing
  - Could better fit into another Section 2.4 ("Provisioning of ALTO maps")

- Section 10.2 ("ALTO Server Access")
  - Adding the use case of ALTO servers with authentication and authorization
  - More work needed on that

- Various minor editorial updates

Summary and Next steps

- Updates in -07

  - Highlight general ALTO deployment issues beyond P2P-specific constraints

  - Additional deployment considerations that were missing so far (e.g., access control)

- Suggested next steps

  - Text needs significant further restructuring and updates
    Example: Section 2.4 ("Provisioning of ALTO Maps") is mostly empty

  - Briefly reference other proposed ALTO use cases (e.g., LMAP, SDN, ...)?

  - Lessons learnt from existing implementations (possibly also inter-ops)?

- Misc: Note that protocol draft -17 refers to specific section numbers