IETF#116, 03/2023, Yokohama
ALTO Working Group

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• Online Agenda and Slides:  https://datatracker.ietf.org/meeting/116/session/alto
• Data tracker: http://datatracker.ietf.org/wg/alto/
• Tools: http://tools.ietf.org/wg/alto
• Notes: https://codimd.ietf.org/notes-ietf-116-alto
Note Well

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- BCP 9 (Internet Standards Process)
- BCP 25 (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- BCP 79 (Patents, Participation)
- https://www.ietf.org/privacy-policy/(Privacy Policy)
Administrative

The session is recorded

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  – Using meetecho queue control
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  • Speak using , stop 🗣️
  – Chat/Jabber available for use
  – Bluesheets

• **Note taking**
  – Please help with minute taking
    (only discussion needs to be captured)

• Online Agenda and Slides at:
  https://datatracker.ietf.org/meeting/116/session/alto

• Session Participant Guide:
  https://www.ietf.org/how/meetings/technology/meetecho-guide-participant/

• Data tracker: http://datatracker.ietf.org/wg/alto/

• Jabber: xmpp:alto@jabber.ietf.org?join

• Tools: http://tools.ietf.org/wg/alto
Agenda

**Introduction** (Chairs)  
Session intro & WG Status  

**Deployment Experience Update**  
Cascading ALTO Deployment  
Discussion Leader: Ingmar Poese  

*ALTO integration with CERN/LHCONE/FTS/RUICO on Multi-domain Setting*  
Discussion Leader: Richard Yang, with Jordi Ros Giralt/Mario Lassnig/Mihai Patrascoiu  

*ALTO integration for Telefonica CDN*  
Discussion Leader: Luis M. Contreras  

**Non-Chartered items:**  
*ALTO Multi-domain Service*  
https://www.ietf.org/archive/id/draft-yang-alto-multi-domain-01.txt  
https://www.ietf.org/archive/id/draft-lachos-alto-multi-domain-use-cases-02.txt  
Discussion Leader:  
Jordi Ros Giralt, with Richard Yang/Ingmar Poese/Danny Alex Lachos Perez/Mario Lassnig  

*Network and Computing Exposure*  
https://www.ietf.org/archive/id/draft-contreras-alto-service-edge-07.txt  
https://www.ietf.org/archive/id/draft-lcsr-alto-service-functions  
https://www.ietf.org/archive/id/draft-yao-alto-core-level-load-balancing-00.txt  
Discussion Leader: Luis M. Contreras/Jordi Ros Giralt
**Document Updates: RFCs, IESG Processing, WGLC, New Adoptions**

**Active Internet-Drafts (3 hits)**

- **draft-ietf-alto-new-transport-07**
  - The ALTO Transport Information Publication Service
  - 48 pages
  - 2023-03-13
  - I-D Exists
  - New
  - In WG Last Call: Proposed Standard
  - Reviews: artart Early, tsvart Early, artart Early, rtgdir Early, secdir Early, opsdir Early, httpdir Early
  - Sep 2022

- **draft-ietf-alto-oam-yang-06**
  - YANG Data Models for the Application-Layer Traffic Optimization (ALTO) Protocol
  - 67 pages
  - 2023-03-12
  - I-D Exists
  - New
  - In WG Last Call: Proposed Standard
  - Reviews: opsdir Early, yangdocs Early, tsvart Early
  - Dec 2022

- **draft-ietf-alto-performance-metrics-28**
  - ALTO Performance Cost Metrics
  - 39 pages
  - 2022-03-21
  - RFC Ed Queue: EDIT
  - Submitted to IESG for Publication: Proposed Standard
  - Reviews: artart LC, secdir LC, tsvart Early

**Individual Drafts (Not in the Charter)**

- Network and Computing Exposure
  - draft-contreras-alto-service-edge-06
  - draft-lcsr-alto-service-functions
  - draft-yao-alto-core-level-load-balancing
  - draft-sun-alto-arch-computing-optical-network
  - draft-zhou-alto-dbors-requirement-ucase

- Multi-domain Setting
  - draft-yang-alto-multi-domain
  - draft-lachos-alto-multi-domain-use-cases-02 (Expired)
  - draft-giraltyellamraju-alto-bsg-multidomain

- Mobile and Wireless Exposure
  - draft-huang-alto-mowie-for-network-aware-app
  - draft-li-alto-cellular-use-cases
WG Status Update

• Status Update: ALTO was rechartered in November 2021
  – ALTO over HTTP2/HTTP3, ALTO OAM YANG, and ALTO Deployment Update

• Progress since then:
  – Published 4 RFCs and adopted two WG drafts
  – Four Hackathons, focus on chartered items (I-D for ALTO over HTTP2/HTTP3 and ALTO OAM, wiki for ALTO deployment)
  – 1 interim meeting (2023-02-23) to facilitate the progress of two WG drafts
  – WGLCs have been initiated separated for ALTO New transport and ALTO OAM YANG
  – Six ALTO deployments and one open-source projects
    • https://wiki.ietf.org/en/group/ALTO/deployment
    • 1 new OpenALTO Project Initiative focuses on open-source implementation of the ALTO specifications
    • Four new ALTO deployments to support networks from CERN (LHCONE) in Europe and the Network Research Platform in the US
    • One new ALTO deployment ongoing to support ALTO integration with Telefonica CDN Network
    • One Existing ALTO deployment from Benocs
  – Socialized ALTO in OPSAWG, MOPS and TVR WG.
  – Work on publishing ALTO introduction in Internet Protocol Journal (work in progress)
What’s Next for ALTO?

• Proposed Direction of Work # 1: Support Operations
  – Rationale
    • Many I-Ds are being proposed to ALTO
    • Some deployments are being disclosed. Having a referent WG is a signal that the IETF is ready to support operations and consider fixes/flaws/limitations that will be found
  – Proposal
    • Recharter the WG with a focus on ALTO maintenance and integration with data sources

• Proposed Direction of Work # 2: Revitalize ALTO
  – Rationale
    • Some of the proposed ALTO work is research oriented (PANRG, would be more appropriate), while other may be conducted in new WGs (e.g., CATS)
    • Some of the key foundations of ATLO might not be valid after 15 years
    • Revitalizing the ALTO effort is needed
  – Proposal
    • Consider closing ALTO right after the completion of OAM/Transport
    • Move ALTO maintenance to TSVWG
    • Use the ALTO mailing list to socialize deployment experience
    • Based on the maintenance that will show in tsvwg and shared deployment, reassess the interest of the community in enriching ALTO with additional features by organizing a formal BoF
Open Mic