IETF 113 [Virtual]
ALTO
Working Group

_____

Chairs:
Jan Seedorf   ietf@j-f-s.de
Mohamed Boucadair mohamed.boucadair@orange.com
Qin Wu   bill.wu@huawei.com

In Room Coordinator: Jordi Ros Giralt

- Online Agenda and Slides: https://datatracker.ietf.org/meeting/113/session/alto
- Data tracker: http://datatracker.ietf.org/wg/alto/
- Tools: http://tools.ietf.org/wg/alto
- Notes: https://codimd.ietf.org/notes-ietf-113-alto

Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

As a reminder:
- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (https://www.ietf.org/contact/ombudsteam/) if you have questions or concerns about this.

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)

Also see: http://www.ietf.org/about/note-well.html:

2

IETF 113 ALTO Working Group (hybrid)

IETF Conduct Guidelines

- The IESG has asked all chairs to remind their working groups of the need for appropriate behavior. This is described in more detail in BCP 54. In summary:
  - IETF participants extend respect and courtesy to their colleagues at all times.
  - IETF participants have impersonal discussions.
  - IETF participants devise solutions for the global Internet that meet the needs of diverse technical and operational environments.
  - Individuals are prepared to contribute to the ongoing work of the group.

Administrative

<p align="center" style="color:red">The session is recorded</p>

- **Meetecho**
  - Using meetecho queue control
    - Enter the queue by pressing the raise hand ✋ leave with 🤚
    - Speak using 🎙️ ,stop with 🎤
  - Chat/Jabber available for use
  - Bluesheets
- **Note taking**
  - https://codimd.ietf.org/notes-ietf-113-alto
  - Please help with minute taking
    (only discussion needs to be captured)
- Online Agenda and Slides at:
 https://datatracker.ietf.org/meeting/113/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

Working Remote

- **Utilize the mailing list!**
  - Working Group consensus is determined on the mailing list
  - Mailing list is to be used for WG decision making and discussions
    - Resolving open issues
    - Reviewing changes to WG documents
    - Introducing new drafts
    - Potential new Working Group topics
- **On-line meetings**
  - On-line interims can be scheduled as needed
    - Periodically, or as needed to cover a specific topic
    - WG members can make requests to chairs
  - Likely to continue for some time in place of physical meetings
- **Informal (working) meetings**
  - WG WebEx is available
  - WG members can make requests to chairs/secretary
  - These meetings will be announced on the WG list

IETF 113 ALTO Working Group (hybrid)

Reminder: IPR Disclosure Process

- We follow process put in place in other groups as a result of very late IPR disclosures – This is not a required IETF process
- Includes Polling of draft authors & contributors:
  - Prior to moving to next step in WG process a. Before an individual draft becomes a WG document and b. Before a WG document goes to last call
  - Requires IPR compliance statement from all listed in draft

- New Step
  – Request that an IPR statement be sent to the list by any new author or contributor when added to a WG document

Agenda

- **Introduction**

  Chairs (5 minutes)

  Session Intro & WG Status

- **Chartered items:**

  ALTO OAM Support (20 min)

  - https://tools.ietf.org/html/draft-zhang-alto-oam-yang-00

  - Discussion Leader: Jensen Zhang/Dhruv Dhody

  ALTO over New Transport (20 min)

  - https://tools.ietf.org/html/draft-yang-alto-http2-transport-01

  - Discussion Leader: Roland Scott

- **Deployment experience Update:**

  ALTO Code bases and Deployment (20min)

  Discussion Leader: Jordi Ros Giralt/Kai Gao/Sruthi Yellamraju

- **Non-Chartered item:**

  Supporting Bottleneck Structure Graphs in ALTO: Use Cases and Requirements (20min)

  - https://tools.ietf.org/html/draft-giraltyellamraju-alto-bsg-requirements/

  - Discussion Leader: Jordi Ros Giralt

- Misc (10 minutes) **ALTO activities related to compute-aware networking** (LUIS)

- Wrap up (5 minutes) Chairs

Document Updates: RFCs, IESG Processing, WGLC, New Adoptions

- New RFC:
  - None
- RFC Editor's Queue
  - draft-ietf-alto-unified-props-new
  - draft-ietf-alto-cdni-request-routing-alto
  - draft-ietf-alto-path-vector
  - draft-ietf-alto-performance-metrics
- WG Adoption
  - draft-ietf-alto-cost-mode (completed in March 21)
    - The draft will be in the WGLC right after the meeting
- New Errata
  - https://www.rfc-editor.org/errata/eid6732 (Samuel Weiler)
  - https://www.rfc-editor.org/errata/eid6874 (Mohamed Boucadair)
  - https://www.rfc-editor.org/errata/eid6876 (Mohamed Boucadair)

Milestones Update

Current Milestones

- Aug 2022 ALTO OAM Document/YANG Model
- Aug 2022 Wiki or internet-draft on ALTO deployments and challenges
- Mar 2022 RFC for ALTO using HTTP/2 and /3 mechanisms
- April 2022: Send Cost Modes Specification to IESG for publication (New)

Proposed Milestones

- April 2022: Send Cost Modes Specification to IESG for publication
- Sept 2022: Send ALTO new Transport to IESG for publication
- Dec 2022: Send ALTO YANG Model to IESG for publication
- Dec 2022: ALTO deployment and challenges documentation

Socializing ALTO

- More dissemination effort

- A collective effort is needed to share the contributions of ALTO with operators and application developers

- We are seeking for volunteers to:
  - Build an ALTO tutorial
  - Present in OPSAREA, ART, and similar venues

- Consider editing a paper in the IETF Journal

- More visibility and increase use of the ALTO software packages