DetNet WG

IETF 114

Philadelphia

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Online Agenda and Slides at:
https://datatracker.ietf.org/meeting/114/session/detnet

WG Information: https://datatracker.ietf.org/wg/detnet/



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IETF 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

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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:
  1. IETF participants extend respect and courtesy to their colleagues at all times.
  2. IETF participants have impersonal discussions.
  3. IETF participants devise solutions for the global Internet that meet the needs of diverse technical and operational environments.
  4. Individuals are prepared to contribute to the ongoing work of the group.

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IETF 114 Meeting Tips



- **In-person participants**
  - Make sure to sign into the session using the Meetecho (usually the “Meetecho lite” client) from the Datatracker agenda
  - Use Meetecho to join the mic queue
  - *Keep audio and video off if not using the onsite version*
  - **Wear masks**
- **Remote participants**
  - Make sure your audio and video are off unless you are chairing or presenting during a session
  - Use of a headset is strongly recommended

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Meeting Administrativia

- Meetecho
  - Using meetecho queue control
  - Chat/Jabber available for use
  - Blue sheets
- Note taking
  - https://notes.ietf.org/notes-ietf-114-detnet?both
  - Please help with minute taking (only discussion needs to be captured)
- Online Agenda and Slides at: https://datatracker.ietf.org/meeting/114/session/detnet
- Data tracker: http://datatracker.ietf.org/wg/detnet/
- Jabber: xmpp:detnet@jabber.ietf.org?join

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IETF 114 Sessions

- Thursday, July 28, 2022 - Tuesday Afternoon session II
  - 13:30 - 15:30 (EDT) -- 17:30 - 19:30 (UTC)
  - Independence A/B

- Joint Session with PALS and MPLS - Tuesday, March 24, 2022 - Morning session I
  - 10:00 - 12:00 (EDT) -- 14:00 - 16:00 (UTC)

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Agenda

- **#1 13:30 20 min Title: Intro, WG Status, Charter, Draft Status**
  - **Presenter: Chairs**
- **#2 13:50 20 min Title: OAM Update**
  - **Presenter: Greg Mirsky**
  - **Draft: https://datatracker.ietf.org/doc/draft-ietf-detnet-controller-plane-framework**
  - **Draft: https://datatracker.ietf.org/doc/draft-ietf-detnet-mpls-oam**
  - **Draft: https://datatracker.ietf.org/doc/draft-ietf-detnet-ip-oam**
- **#3 14:10 10 min Title: Asynchronous Deterministic Networking Framework for Large-Scale Networks**
  - **Presenter: □□□ (Jinoo Joung)**
  - **Draft: https://datatracker.ietf.org/doc/draft-joung-detnet-asynch-detnet-framework**
- **#4.1 14:10 10 min Title: DetNet Enhancements for Large-Scale Deterministic Networks**
  - **Presenter: Xiong Quan**
  - **Draft: https://datatracker.ietf.org/doc/draft-xiong-detnet-large-scale-enhancements/**
- **#4.2 14:20 10 min Title: DetNet Queuing Option for IPv6**
  - **Presenter: Xiong Quan**
  - **Draft: https://datatracker.ietf.org/doc/draft-xiong-detnet-6man-queuing-option/**
- **#5 14:30 10 min Title: Tagged Cyclic Queuing and Forwarding Update**
  - **Presenter: Toerless Eckert**
  - **Draft: https://datatracker.ietf.org/doc/draft-eckert-detnet-mpls-tc-tcqf/**
- **#6 14:40 10 min Title: IPv6 Options for Cyclic Queuing and Forwarding Variants**
  - **Presenter: Yizhou Li**
  - **Draft: https://datatracker.ietf.org/doc/draft-yizhou-detnet-ipv6-options-for-cqf-variant**
- **#7 14:50 10 min Title: Deadline Based Deterministic Forwarding**
  - **Presenter: Shaofu Peng**
  - **Draft: https://datatracker.ietf.org/doc/draft-peng-detnet-deadline-based-forwarding/**
- **#8 15:00 10 min Title: DetNet Enhanced Data Plane**
  - **Presenter: Fan Yang**
  - **Draft: https://datatracker.ietf.org/doc/draft-yzz-detnet-enhanced-data-plane/**
- **#8 15:10 15 min Title: RAW Multidomain Extensions**
  - **Presenter: Carlos Bernardos**
  - **Draft: https://datatracker.ietf.org/doc/draft-bernardos-detnet-multidomain/**

WG Status

- Publication requested
  - draft-ietf-detnet-bounded-latency-10 <==RFC Editor Queue
    DetNet Bounded Latency
  - draft-ietf-detnet-yang-16 <== Publication Requested (with AD)
    Deterministic Networking (DetNet) YANG Model
- In WG last call
  - draft-ietf-detnet-oam-framework-06 <== Closes August 3rd
  - **Framework of Operations, Administration and Maintenance (OAM) for Deterministic Networking (DetNet)**
- Candidate for adtoption
  - draft-varga-detnet-pof-03
    Deterministic Networking (DetNet): Packet Ordering Function
- Not on agenda
  - draft-ietf-detnet-controller-plane-framework-02
    Deterministic Networking (DetNet) Controller Plane Framework
  - draft-ietf-detnet-mpls-over-ip-preof-00
    Deterministic Networking (DetNet): DetNet PREOF via MPLS over UDP/IP

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Liaisons and Communications

- Received:
  - From: ITU-T-SG-13
    - https://datatracker.ietf.org/liaison/1791/ -- with 3 attachments
  - Received: 2022-07-25
  - Subject: *LS on a consented and two on-going work items on deterministic communication services and networking in SG13 of ITU-T*

ITU-T Study Group 13 would like to inform you that Question 6 of SG13 has one consented and two on-going work items related to deterministic communication services and networking for the scope of local area networks and large-scale networks of the IMT-2020 network and beyond.

…

This information is for your consideration and we look forward to collaborating with you in this area.

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Charter Update

- Charter approved earlier this month
  - Changed to allow for work on queuing
- Changed wording:
  - The Working Group's scope ~~explicitly~~ generally excludes modifications of transport protocols, OAM, Layer 3 forwarding, and encapsulations, but it may discuss requirements for such modifications and the work will be ~~done in~~ coordinated with the Working Group responsible for the technology.
  - Data plane: This work will document how to use IP and/or MPLS, and related OAM, to support a data plane method of flow identification and packet ~~forwarding~~ treatment over Layer 3. Other IETF defined data plane technologies may also be used.

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Milestones Update

- Sep 2022 - Adopt Enhanced DetNet Data Plane Requirements document
- Sep 2022 - Submit first OAM document for publication (framework)
- Dec 2022 - Adopt first Enhanced DetNet Data Plane solution document
- Oct 2022 - Submit OAM solution document(s) (MPLS)
- Dec 2022 - Submit controller plane framework
- Jul 2023 - Submit Enhanced DetNet Data Plane Requirements document for publication
- Dec 2023 - Submit first Enhanced DetNet Data Plane solution document for publication

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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:

  1. 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
  2. Requires IPR compliance statement from ***all*** listed in draft
  3. Request that an IPR statement be sent to the list by any new author or contributor when added to a WG document

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Progressing Work

- 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
- Virtual meetings
  - Virtual interims can be scheduled as needed
    - Periodically, or as needed to cover a specific topic WG members can make requests to chairs
- Informal (working) meetings
  - WG WebEx is available WG members can make requests to chairs/secretary
  - These meetings will be announced on the WG list

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