

DetNet WG

IETF 122

Bangkok

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Online Agenda and Slides at:

<https://datatracker.ietf.org/meeting/122/session/detnet>

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



This session is being recorded

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:

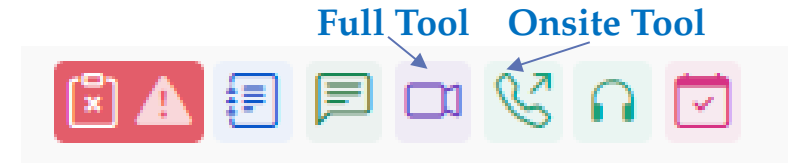
- BCP 9 (Internet Standards Process)
- BCP 25 (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- BCP 79 (Patents, Participation)
- <https://www.ietf.org/privacy-policy/> (Privacy Policy)

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

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.

IETF 122 Meeting Tips



- **In-person participants**

- Make sure to sign into the session using the Meetecho Onsite Tool from the Datatracker agenda
- Use Meetecho to join the mic queue
- *Keep audio and video off if not using the onsite version*

- **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

Meeting Administrivia

- Meetecho
 - Using meetecho queue control
 - Chat/Jabber available for use
 - Blue sheets
- Note taking
 - <https://notes.ietf.org/notes-ietf-122-detnet?both>
 - Please help with minute taking (only discussion needs to be captured)
- Online Agenda and Slides at:
<https://datatracker.ietf.org/meeting/122/session/detnet>
- Data tracker: <http://datatracker.ietf.org/wg/detnet/>
- Chat: <https://zulip.ietf.org/#narrow/stream/detnet>

Agenda

01) Intro, WG Status, Draft Status

Potential DetNet – TSN Workshop in Madrid

02) Dataplane Enhancement Taxonomy

03) Latency Guarantee with Stateless Fair Queuing

04) Deadline Based Deterministic Forwarding

05) Timeslot Queueing and Forwarding Mechanism

06) Flow Aggregation for Enhanced DetNet

07) Enhanced Use Cases for Scaling Deterministic Networks

08) On-time Forwarding with Push-In First-Out (PIFO) queue

09) Non-work Conserving Stateless Core Fair Queuing

10) DetNet Multidomain Extensions

Late addition / change

11:30 END

Reminder

- WG Authors: please focus on
 - a) Changes from last meeting
 - b) Plans to complete the document
 - c) Please keep to scheduled time, including discussion.
- Non-WG documents: please focus on
 - a) What area of the WG charter is addressed by the draft
 - b) For new drafts, a summary of technical details
for old drafts, what has changed
 - c) Next step or what is needed from the WG

WG Status

- Publication requested
 - [draft-ietf-raw-technologies-13](#) <== Publication Requested (on telechat)
Reliable and Available Wireless Technologies
- WG last call
 - [draft-ietf-raw-architecture-21](#) – Reliable and Available Wireless Architecture (ready, with shepherd)
 - [draft-ietf-detnet-controller-plane-framework-07](#) – Controller Plane Framework (revision needed)
- Recent adoption
 - None
- Candidate for adoption
 - None

WG Status

- Not on agenda
 - [draft-ietf-detnet-scaling-requirements-06](#)
Requirements for Scaling Deterministic Networks <=== gated by solutions work
- Expired
 - [draft-ietf-detnet-raw-industrial-req-01](#) <=== Last update: 24-07-08
Requirements for Reliable Wireless Industrial Services
 - [draft-ietf-raw-framework-02](#) <=== Last update: 23-09-13
Reliable and Available Wireless Framework
 - [draft-ietf-detnet-topology-yang-01](#) <=== Last update: 23-04-07
Deterministic Networking (DetNet) Topology YANG Model

Liaisons Statements Received

- Sent

2025-02-07	ITU-T-SG-13	Response to LS on request for feedback on work items related to deterministic networking in SGT3	for action
<i>... We invite contributions from members of your group to our efforts in the development of DetNet. If gaps are perceived in meeting requirements, we encourage contributions related to those aspects to the DetNet Working Group.</i>			

- Received

2025-03-07	ITU-T-JCA-IMT2020	Invitation to update the information in the IMT-2020 and beyond roadmap	for action
<i>... The objective of the roadmap is to support IMT-2020 and beyond standardization coordination. ... Please submit your updates using the template to be found in appendix below</i>			

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

Reminder: Document Status

- We ask authors of all WG document to provide a status update to the WG at **every** IETF meeting
 - Status includes, at a minimum, recent changes, open issues, and plan to complete document
 - Via:
 - (a) A report during the IETF session
 - (b) An e-mail to WG list, sent no later than the Internet-Draft submission cut-off

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
 - Meetecho is available **<==** WG members can make requests to chairs/secretary
 - These meetings will be announced on the WG list

Potential DetNet – TSN Workshop

- Draft agenda – July 26 Saturday afternoon
 - Welcome, intro, rules, etc. (chairs) - 10 min
 - TSN update (including wireless) (chairs) - 30 min
 - DetNet update (including wireless) (chairs) - 30 min
 - Queuing - 30 min
 - Problem statement/requirements (draft authors?)
 - Solution framework (draft authors?)
 - Experiments on Combination of DetNet and TSN (Florian Kauer?) - 20 min
 - DetNet and TSN in the real world - call for presentations - 30 min
 - Open mic - 25 min
- Questions for discussion
 - Is there interest, who would attend in-person (sense of attendees, [doodle](#))?
 - What topics are missing?