

DetNet WG

Interim, Dec 12, 2022

virtual

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Online Agenda and Slides at:

<https://datatracker.ietf.org/doc/agenda-interim-2022-detnet-01-sessa/>

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

This session is being recorded



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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)

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

Meeting Tips

- Make sure your audio and video are off unless you are speaking during the session
- Use of a headset is strongly recommended

Meeting Administrivia

- Meetecho
 - Using meetecho queue control
 - Zulip available for use
 - Blue sheets
- Note taking
 - <https://notes.ietf.org/notes-ietf-interim-2022-detnet-01-detnet?both>
 - Please help with minute taking (only discussion needs to be captured)
- Online Agenda and Slides at:
<https://datatracker.ietf.org/meeting/interim-2022-detnet-01/session/detnet>
- Data tracker: <http://datatracker.ietf.org/wg/detnet/>

WG Status

- Recently published
 - [RFC 9320](#) **DetNet Bounded Latency**
- Publication requested
 - [draft-ietf-detnet-yang-16](#) <== Publication Requested (with AD)
Deterministic Networking (DetNet) YANG Model
 - [draft-ietf-detnet-oam-framework-07](#) <== Publication Requested (with AD)
Framework of Operations, Administration and Maintenance (OAM) for Deterministic Networking (DetNet)
- In WG last call
 - None
- Recent adoption
 - [draft-ietf-detnet-scaling-requirements-00](#)
Requirements for *Large-Scale* Deterministic Networks
 - Expect title change: Requirements for *Scaling* Deterministic Networks

Liaisons and Communications

- Received:
 - From: 3GPP SA WG2
<https://datatracker.ietf.org/liaison/1800/>
 - Received: 2022-10-25
 - Subject: *LS on 3GPP 5G System acting as a Detnet node*
 - Response requested by 2022-12-30

 - Draft response posted November 25, some discussion, see:
 - <https://mailarchive.ietf.org/arch/msg/detnet/nE1JoXHN7k81sbKJgcYslA2rgEk/>
 - Final comments requested by December 15
 - If no further changes requested, will be sent December 16

Agenda

- **#1 13:00 15 min Title: Intro, WG Status, Charter, Draft Status**
 - Presenter: Chairs
- **#2 13:15 10 min Title: Requirements of large-scale deterministic network**
 - Presenter: Peng Liu
- **#3 13:25 10 min Title: DetNet Enhanced Data Plane Requirements**
 - Presenter: Xuesong Geng
- **#4 13:35 15 min Title: An Information Model for DetNet packet processing metadata (and beyond?)**
 - Presenter: Toerless Eckert
- **#5 13:50 10 min Title: DetNet Enhanced Data Plane**
 - Presenter: Li Zhang / Xuesong Geng
- **#6 14:00 5 min Title: DetNet Data Plane - Tagged Cyclic Queuing and Forwarding (TCQF) for bounded latency with low jitter in large scale DetNets**
 - Presenter: Toerless Eckert
- **#7 14:05 10 min Title: Towards Large-Scale Deterministic IP Networks: variant of CQF**
 - Presenter: Guangpeng Li
- **#8 14:15 10 min Title: More technical details on the scheduling methods proposed in the ADN draft**
 - Presenter: Jinoou Joung
- **#9 14:25 10 min Title: Deadline Based Deterministic Forwarding**
 - Presenter: Shaofu Peng
- **#10 14:35 10 min Title: The queuing based enhancement in data plane**
 - Presenter: Quan Xiong
- **#11 14:45 15 min Open discussion**
- **15:00 Adjourn**

Expected Outcomes of This Meeting

- We now have an adopted enhanced DetNet (scaling) data plane requirements document
- This session largely focused on addressing queuing related requirements
 - Including related encapsulation/on-wire implications
- Many good individual drafts
- WG will need to choose which drafts will be adopted and progressed

- To facilitate this discussion, we expect to form a Design Team (DT) in early 2023
 - DT charter will be proposed on list
 - Expected scope to be addressing queuing related requirements
 - Call for participants will be issued along with draft charter
 - David Black has agreed to act as DT lead

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