

# DetNet WG

## 1ST Meeting

### Chairs:

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### Secretary:

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Online Agenda and Slides at: <https://datatracker.ietf.org/meeting/94/materials.html#detnet>

WG Information: <http://trac.tools.ietf.org/WG/trac/wiki/DetNet>

# IETF Note Well

This summary is only meant to point you in the right direction, and doesn't have all the nuances. The IETF's IPR Policy is set forth in BCP 79; please read it carefully.

## The brief summary:

- ❖ **By participating with the IETF, you agree to follow IETF processes.**
- ❖ **If you are aware that a contribution of yours (something you write, say, or discuss in any IETF context) is covered by patents or patent applications, you need to disclose that fact.**
- ❖ **You understand that meetings might be recorded, broadcast, and publicly archived.**

For further information, talk to a chair, ask an Area Director, or review the following:

BCP 9 (on the Internet Standards Process)

BCP 25 (on the WG processes)

BCP 78 (on the IETF Trust)

BCP 79 (on Intellectual Property Rights in the IETF)

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

# Meeting Administrivia

- Audio Streaming/Recording
  - Please speak only using the microphones
  - Please state your name before speaking
- Joint minute taking ← Please contribute
  - <http://etherpad.tools.ietf.org:9000/p/notes-ietf-94-detnet>
- Jabber:
  - [detnet@jabber.ietf.org](mailto:detnet@jabber.ietf.org)
- Online Agenda and Slides at:
  - <https://www.ietf.org/proceedings/94/agenda/agenda-94-detnet> or
  - <https://datatracker.ietf.org/meeting/94/materials.html#detnet>
- Blue sheets
  - Please add your name

# Agenda

- Title: Administrivia & Intro, WG organization & milestones  
Presenter: Chairs  
Slides: <http://www.ietf.org/proceedings/94/slides/slides-94-detnet-0.pptx>
- Title: Consolidated Use Cases  
Presenter: Ethan Grossman  
Draft: <http://tools.ietf.org/html/draft-grossman-detnet-use-cases>  
Slides: <http://www.ietf.org/proceedings/94/slides/slides-94-detnet-1.pptx>
- Title: Problem Statement  
Presenter: Pascal Thubert/Norman Finn  
Draft: <http://tools.ietf.org/html/draft-finn-detnet-problem-statement>  
Slides: <http://www.ietf.org/proceedings/94/slides/slides-94-detnet-2.pptx>
- Title: Architecture  
Presenter: Norman Finn  
Draft: <http://tools.ietf.org/html/draft-finn-detnet-architecture>  
Slides: <http://www.ietf.org/proceedings/94/slides/slides-94-detnet-3.pptx>
- Title: Data Plane Kickoff Discussion  
Presenter: Jouni Korhonen/Shahram Davari  
Draft:  
Slides: <http://www.ietf.org/proceedings/94/slides/slides-94-detnet-4.pptx>  
Title: Discussion

# WG Charter

- Chartered to do work in the following areas:
  - See <https://datatracker.ietf.org/doc/charter-ietf-detnet/>
- Overall architecture:
  - encompasses the data plane, OAM, time synchronization, management, control, and security aspects.
- Data plane:
  - document how to use IP and/or MPLS to support a data plane of flow identification and packet forwarding over Layer 3.
- Data flow information model:
  - identify the information needed for flow establishment and control and be used by reservation protocols and YANG data models. The work will be independent from the protocol(s) used to control the flows
    - (e.g. YANG+NETCONF/RESTCONF, PCEP or GMPLS).
- YANG models:
  - This work will document device and link capabilities (feature support) and resources (e.g. buffers, bandwidth) for use in device configuration and status reporting.
- Problem statement: (as needed)
  - This effort will establish the deployment environment and deterministic network requirements.
- Vertical requirements:(as needed)
  - This effort will detail the requirements for deterministic networks in various industries, for example, professional audio, electrical utilities, building automation systems, wireless for industrial applications.
- Encryption:
  - To investigate whether existing data plane encryption mechanisms can be applied, possibly opportunistically, to improve security and privacy

# Milestones

Date	Milestone
<b>Dec-15</b>	WG adoption of <b>use cases</b>
<b>Dec-15</b>	WG adoption of <b>problem statement</b> (with supported deployments)
<b>Jan-16</b>	WG adoption of <b>architecture document</b>
Apr-16	WG adoption of <b>data plane specification</b>
May-16	WG adoption of data flow information model
Aug-16	WG adoption of YANG model
Sep-16	Finalize use cases (informational)
Sep-16	Finalize problem statement (informational)
Nov-16	Submit architecture (Standards Track)
Jan-17	Submit data plane specification (Standards Track)
Feb-17	Submit data flow information model (informational)
Apr-17	Submit YANG model (Standards Track)
Apr-17	Re-charter or close

# Important WG Links

- Datatracker – IETF supported *Official* WG site
  - <https://datatracker.ietf.org/wg/detnet/>
  - Used to support formal process steps, e.g., adoption and publication requests
- Tools – Community supported
  - <https://tools.ietf.org/wg/detnet/>
  - Provides some of the same information as datatracker + next gen features
  - **Wiki** – Anyone can add information
  - **Trac** – WG document issue tracking
  - **SVN** – WG document issue tracking
- Mailing list information
  - [detnet@ietf.org](mailto:detnet@ietf.org)
  - <https://www.ietf.org/mailman/listinfo/detnet>
  - Archives
    - <http://www.ietf.org/mail-archive/web/detnet/current/maillist.html>
    - [https://mailarchive.ietf.org/arch/search/?email\\_list=detnet](https://mailarchive.ietf.org/arch/search/?email_list=detnet)

# WG Process

- As with all IETF WGs, process governed by RFCs
    - See <https://www.ietf.org/about/standards-process.html> and <https://www.ietf.org/about/process-docs.html> for pointers
  - The deliverables of a WG are RFCs
    - **Informational** – Background, informative, not a protocol specification
    - Experimental – Protocol mechanisms that are not yet ready for prime time
    - BCP – The best way to do something, not a protocol specification
    - **Standards Track** – A technical specification, bits on the wire + processing
  - Normal document life cycle
    - Individual Draft → (Adoption poll\*) → WG Draft → (WG last call) → Publication Request → (IESG Review) → (IETF last call) → Publication approved → (RFCeditor /IANA) → RFC
- \* -- At the chairs discretion
- Individual draft, controlled by authors; WG draft controlled by WG

# WG Roles

Some things to keep in mind from [RFC2418](#):

- Working group chair
  - Sets/runs WG process; Gages / calls consensus for the WG
    - See [RFC7282](#) on judging consensus
  - Appointed by AD; complaints / protests to AD
- Secretary
  - Facilitates WG operation and process, appointed by chair
- Document editor
  - Ensures: document forward progress; timely updates; that document reflects WG (*not author*) consensus
- Document shepherd
  - Manages a document through the post-WG publication process, see [RFC4858](#)
- WG contributors
  - Contribute text to documents, participate in reviews and other WG discussions
  - Author candidate WG documents

# Utilizing 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
- Meeting time will be scheduled relative to mailing list discussion

# IPR Disclosure Process

- We propose to 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
  - Before an individual draft becomes a WG document and
  - Before a WG document goes to last call
- Requires IPR compliance statement from ***all*** listed in draft

# Questions / Comments?

- ???