## Internet Engineering Task Force Newcomers' Overview

February 2021



## Welcome to the IETF!

### IETF Note Well

#### https://www.ietf.org/about/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:

- $\cdot$  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 (<a href="https://www.ietf.org/contact/ombudsteam">https://www.ietf.org/contact/ombudsteam</a>) if you have questions or concerns about this.

## IETF Note Well (cont.)

#### https://www.ietf.org/about/note-well/

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)
- o BCP 54 (Code of Conduct)
- o <u>BCP 78</u> (Copyright)
- BCP 79 (Patents, Participation)
- Privacy Policy

# Newcomer Activities @ IETF 110 <a href="https://www.ietf.org/how/meetings/110/newcomers">https://www.ietf.org/how/meetings/110/newcomers</a>

- Newcomer's tutorial webinars (time and dates)
  - Tuesday, February 23 @ 1300 UTC
  - Friday, February 26 @ 0000 UTC
- Newcomers Ask Me Anything (AMA)
  - Tuesday, March 09 @ 14:00 UTC
  - o Thursday, March 11 @ 15:30 UTC
- IETF Guides (sign ups ongoing now)

# Scope: Preparing for an IETF Meeting <a href="https://www.ietf.org/about/participate/">https://www.ietf.org/about/participate/</a>

#### This presentation includes:

- Information immediately useful to you as you attend your first(ish) IETF meetings
- Strategies to make the most of the meeting (whether in person or remote)

#### This presentation does **not** include information about:

 The history of the IETF; How to write a "standard"; and many other things...

# The IETF and Related Organizations

#### **IETF Mission**

https://www.ietf.org/about/mission/

The mission of the IETF is to make the Internet work better by producing high quality, relevant technical documents that influence the way people design, use, and manage the Internet.

[<u>RFC 3935</u>]



#### The IETF is ...

- · A Standards Development Organization (SDO)
- · With self-selected individual participants, no formal membership
- No formal voting (but we <u>do</u> hum...)
- No formal government role
- Driven by market-based adoption (a real standard is one people use)
- Focused on Internet technologies
- Bottom-up... and unique!

#### **IETF** Areas

Applications and	Real-Time
(ART)	

Application protocols and architectures

• Real-time (communication) and non-real-time

Transport (TSV)

Mechanisms related to data transport on the Internet
 Includes congestion control

Routing (RTG)

Routing and signaling protocols

Internet (INT)

• IPv4/IPv6, DNS, DHCP, mobility

Operations and Management (OPS)

Network management

Operations: IPv6, DNS, security, routing

Security (SEC)

Security protocols and mechanisms

General (GEN)

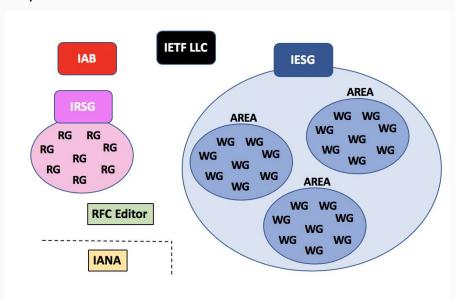
Activities focused on supporting and updating IETF processes

### The IETF and Consensus

- IETF mantra:
  - "We reject kings, presidents and voting. We believe in rough consensus and running code."
- Rough consensus is achieved when all issues are addressed, but not necessarily accommodated
- Dissenting opinions are heard, but are not controlling
- Humming: a way of measuring consensus that is not voting
- Session chair is responsible for building consensus
- WG mailing list consensus has to be taken into account
- "On Consensus and Humming in the IETF", P. Resnick, [RFC 7282]

## Alphabet soup

- IESG -- Internet Engineering Steering Group
  - Areas and Working Groups here!
- IRTF -- Internet Research Task Force
  - Research Groups here!
- IAB -- Internet Architecture Board
- IETF LLC -- IETF Administration LLC



### Who does what?

- IESG: responsible for technical management of IETF activities and the Internet standards process
- IRTF: a parallel organization focused on longer-term research topics for the Internet
- IAB: provides oversight of the Internet architecture and the standards process
- **IETF LLC:** provides the corporate legal home for the IETF, the IAB, and the IRTF; provides fiscal and administrative support

# IETF Week in a Nutshell

## An IETF Meeting week (in person)

- Organized events on the agenda include:
  - Working Group sessions: ~130 working groups (some subset meeting)
  - Birds of a Feather sessions (BOFs)
  - IRTF sessions: ~ 15 research groups (some subset meeting)
  - Area-wide sessions, IETF-wide plenary(s), invited lunch talks
  - Hackathon and Code Sprint
  - Social Events
  - Tutorials, Deep Dives & Lunch Sessions
  - Hot RFC Lightning Talks
  - Side Meetings, Open Time

## An IETF Meeting week (cont.)

Activities not on the agenda include:

- Hallway meetings
- Many Bar BOFs
- Marathon Editing Sessions

We have an **App** (IETFers)!





The **Agenda** is your friend!

https://datatracker.ietf.org/meeting/110/agenda

## IETF 110 Meeting week (online)

- IETF 110 will be all online 8-12 March 2021 (with a few activities in the two weeks preceding...
  - Newcomer's overviews and Meetecho training sessions are the week of 22-24 February
     2020
  - Hackathon is online 1-5 March
  - Newcomer Ask Me Anything Sessions will be held in the IETF 110 Gather space on Tuesday, March 09 @ 14:00 UTC and Thursday, March 11 @ 15:30 UTC
- Meetings will run 12:00 to 18:00 UTC
- All session information will be linked from the IETF Datatracker agenda page
  - https://datatracker.ietf.org/meeting/agenda/
- Informal side meetings (<a href="https://trac.ietf.org/trac/ietf/meeting/wiki/110sidemeetings">https://trac.ietf.org/trac/ietf/meeting/wiki/110sidemeetings</a>)
- Additional information on how to participate:
  - https://www.ietf.org/how/meetings/110/session-participant-guide/
- Newcomer specific activities (<a href="https://www.ietf.org/how/meetings/110/newcomers/">https://www.ietf.org/how/meetings/110/newcomers/</a>)

## Working Group sessions

- Biggest part of an IETF week
- Most work is done on mailing lists in between meetings
- Face-to-face meetings mostly focused on solving key issues
- Sessions are streamed & recorded
- Charter (including milestones) is negotiated with area director



## Birds-of-a-Feather (BOF) sessions

- Often precedes formation of a WG
- Usually includes discussion of a proposed WG charter
- ·Sometimes a one-shot for a timely topic
- Proposed by a group interested in a topic
- Approved by ADs
- Generally meet only once



## IRTF Research Group sessions

- Officially an activity of the IAB
- Focused more on research versus engineering topics
- IRTF RGs often meet at IETF meetings
- IRTF meetings at the IETF are open to all IETF attendees

Useful reference on the IRTF: RFC 7418 "An IRTF Primer for IETF Participants"



# Area-wide Sessions, Plenaries, and invited lunch talks



# Hackathons and Code Sprints



### Hackathon Details

- Free to participate, open to everyone
- Collaborative, working toward shared goals
- Advance pace and relevance of IETF standards
  - Flush out ideas, feed back into working groups
- Attract developers, universities
  - Team newcomers with veterans
  - Reduce time to meaningful contribution
- Weekend at start of each IETF meeting
  - Week before IETF meeting when meeting is online only
- https://www.ietf.org/how/runningcode/hackathons/

# Networking and Social Events





### But wait... there is more...

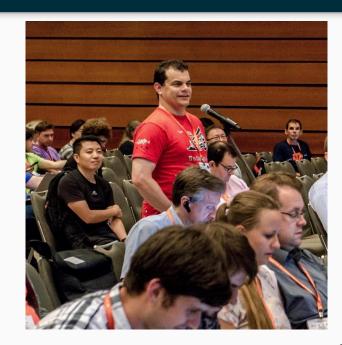
- Side meetings (ongoing agenda experiment)
  - https://trac.ietf.org/trac/ietf/meeting/wiki/110sidemeetings
- Technology Deep Dive: Domain Name System (DNS) part 2
  - https://www.ietf.org/live/ietf110-tdd

## General Meeting Etiquette

- Read documents of interest before WG sessions
- Behave respectfully and tolerantly towards all participants
- Talk (and listen) to people
- Enjoy yourself
- Remember to sleep!

## IETF Session Etiquette - the online version!

- Practice good online meeting practices.
  - Test your configuration in advance.
  - Keep yourself muted and video off except when speaking.
  - Use a headset if possible
  - Speak slowly and clearly. Be concise.
- Technical comments & questions are welcome
- Use the WG Jabber channel to discuss meeting-relevant topics



## Bringing New Work to the IETF

- Develop some collaborators with similar interest
- Write some initial drafts, maybe have some Bar BoFs
- Talk to Area Directors in the relevant area (maybe DISPATCH)
- Propose a BoF (drafts, charter, agenda all needed)
- Hold the BoF (Consensus determines the next steps)
- But first... Check out ... Tutorial on Bringing New Work to the IETF:
  - slides:
     <a href="https://www.ietf.org/proceedings/103/slides/slides-103-edu-ses-sl-bringing-new-work-to-the-ietf-00.pdf">https://www.ietf.org/proceedings/103/slides/slides-103-edu-ses-sl-bringing-new-work-to-the-ietf-00.pdf</a>
  - video: <a href="https://www.youtube.com/watch?v=YnK3rsZG4Ec">https://www.youtube.com/watch?v=YnK3rsZG4Ec</a>

## The Resources

- People
- Information
- Tools

## IETF Participants (and culture)



Con-

Passionate, smart, vocal people.

Have a question? Don't be shy; we're all here to help.

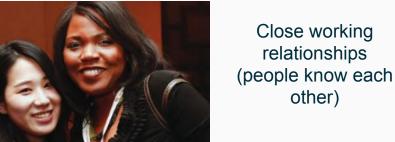
Informal dress code. (when we meet in person or are on camera!)



de.

Technical excellence is highly valued.

Do your homework then please speak up and contribute!



## Area Directors (ADs) and WG Chairs

- Working Group Chairs
  - https://datatracker.ietf.org/wg/photos/
- Area Directors
  - https://www.ietf.org/about/groups/iesg/members/
- IETF General Chair Alissa Cooper
  - https://datatracker.ietf.org/person/Alissa%20Cooper

NOTE: If you have <u>any</u> questions or concerns about working group operations or behaviors, please feel free to discuss these with either the working group chairs or the responsible Area Directors for that working group.

## IETF Executive Director



Jay Daley
<a href="https://datatracker.ietf.org/person/Jay%20Daley">https://datatracker.ietf.org/person/Jay%20Daley</a>

## **IETF Secretariat**





## RFC Editor Staff & IANA Staff





#### The Ombudsteam

- IETF Participants must not engage in harassment while at IETF meetings,
   virtual meetings, or social events or while participating in mailing lists.
  - Report any harassment to the <u>Ombudsteam</u> (<u>RFC 7776</u>, <u>BCP 25</u>)
     <a href="https://www.ietf.org/blog/ietf-anti-harassment-policy/">https://www.ietf.org/blog/ietf-anti-harassment-policy/</a>
  - o Allison Mankin, Pete Resnick, Melinda Shore







#### Newcomer Resources

#### The Tao of the IETF:

A Novice's Guide to the Internet Engineering Task Force <a href="https://www.ietf.org/about/participate/tao/">https://www.ietf.org/about/participate/tao/</a>

#### **Newcomer's Information Page for IETF 110**

https://www.ietf.org/how/meetings/110/newcomers/

#### **Tutorials:**

https://www.ietf.org/about/participate/tutorials/

## More Meeting Resources

#### First-time attendees mailing list

https://www.ietf.org/mailman/listinfo/110-newcomers

#### **IETF Systers**

https://www.ietf.org/blog/ietf-systers/

#### Meeting mailing lists

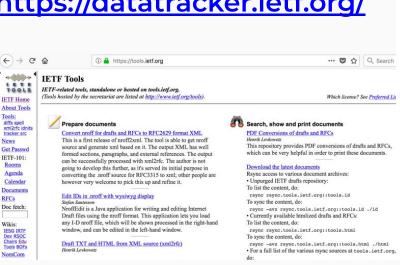
https://www.ietf.org/how/meetings/ietf-meeting-mailing-lists/

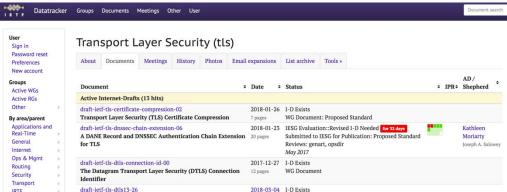
Meeting issues: <a href="https://www.ietf.org/how/meetings/issues/">https://www.ietf.org/how/meetings/issues/</a>

One stop shop for all links: <a href="https://www.ietf.org/links/">https://www.ietf.org/links/</a>

## Datatracker and Tools Page







Tools Page <a href="https://tools.ietf.org/">https://tools.ietf.org/</a>

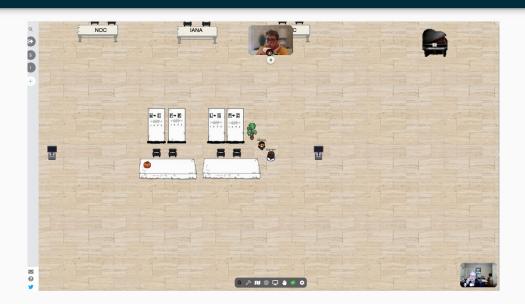
#### Meetecho

- Meetecho is the IETF custom tool for remote participation!
- All sessions are linked off of the datatracker agenda page.
- Additional information
   <a href="https://www.ietf.org/how/meetings/110/">https://www.ietf.org/how/meetings/110/</a>
   session-participant-quide/
- Participant Practice sessions

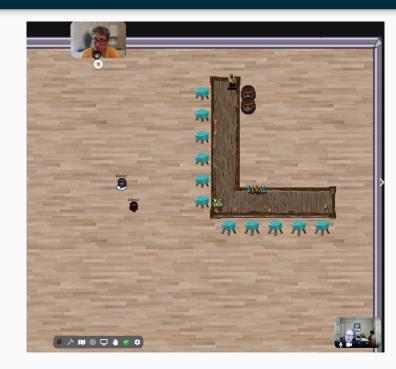


The Meetecho team at IETF 83, (left to right) Lorenzo Miniero, Simon Romano, Tobia Castaldi, and Alessandro Amirante

# gather.town: The IETF virtual hallway track



Stay tuned for links and directions!



## Jabber/XMPP Groupchat

The IETF uses eXtensible Messaging and Presence Protocol (XMPP) [RFC 6120] to host a number of chat rooms during the IETF meeting.

- Used to ask questions and provide a hint of where the discussion is at on slides for audio remote listeners.
- Integrated into Meetecho for IETF 110 Online sessions
- More information at: <a href="https://www.ietf.org/how/meetings/jabber/">https://www.ietf.org/how/meetings/jabber/</a>

# Above all: Enjoy!



## Questions or Feedback?



What did we miss?

Please help us help you - answer our survey! <a href="https://ietf.iadl.qualtrics.com/jfe/form/SV\_9y">https://ietf.iadl.qualtrics.com/jfe/form/SV\_9y</a> <a href="mailto:mwhsQBABFi8R">mwhsQBABFi8R</a>

For any additional questions, feel free to contact us at <a href="mailto:edu-team@ietf.org">edu-team@ietf.org</a>

