Internet Engineering Task Force Newcomers' Overview

November 2019



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 (https://www.ietf.org/contact/ombudsteam) 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)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- o BCP 79 (Patents, Participation)
- Privacy Policy

Newcomer Activities @ IETF 106 https://www.ietf.org/how/meetings/106/newcomers

- Newcomer's tutorial (12:30 13:30, Sunday, 17 November)
- IETF Quick Connections (16:00 17:00 Sunday, 17 November)
 - Short one-on-one conversations with experienced IETFers
- IETF Guides Mentoring
- Newcomer's Dinner (18:30 20:00, Monday, 18 November)
- Newcomers Feedback session (08:00 09:00, Thursday, 21 November)

Scope: Preparing for an IETF Meeting https://www.ietf.org/about/participate/

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 YouTube channel has <u>a playlist with information about all these topics</u> (and more)

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 architecturesReal-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 managementOperations: 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]

IETF Culture



Passionate, smart, vocal people



Technical excellence is highly valued



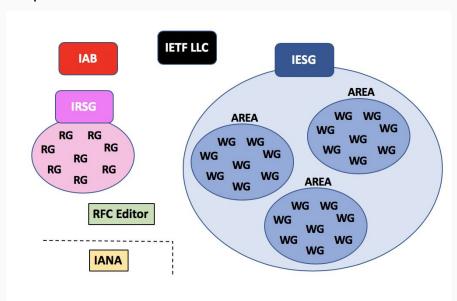
Informal dress code (people LOVE t-shirts)



Close working relationships (people know each other)

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

The IETF Meeting week

- Organized events on the agenda include:
 - Working Group sessions: ~130 working groups (~80 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
 - Hackathons and Code Sprints
 - Social Events
 - Tutorials, Deep Dives & Lunch Sessions
 - Hot RFC Lightning Talks
 - Side Meetings, Open Time

The 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/106/agenda

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



Networking and Social Events





But wait... there is more...

- Side meetings, open time (ongoing agenda experiment)
 - https://www.ietf.org/how/meetings/106/side-meetings/
- Tutorials (Sunday afternoon) and Deep Dives (Tuesday morning)
- HotRFC Lightning Talks (Sunday evening 6 pm 8 pm)

General Meeting Etiquette

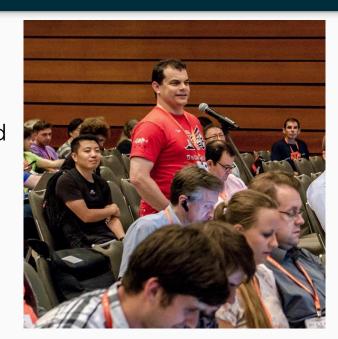
- Read documents of interest before WG sessions
- Behave respectfully and tolerantly towards all participants
- Talk (and listen) to people
- Enjoy yourself
- Remember to sleep!

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:
 https://datatracker.ietf.org/doc/slides-103-edu-sessl-bringing-new-work-to-the-ietf/
 - video: https://www.youtube.com/watch?v=YnK3rsZG4Ec

IETF Session Etiquette

- Speak directly into the microphone
- Say your name every time you speak at the microphone
- Sign the "blue sheets" which provide a record of who is in the room (remote participants recorded as well)
- Technical comments & questions are welcome
- Use the WG Jabber channel to discuss meeting-relevant topics



The Resources

- People
- Information
- Tools

Key People: IETF Secretariat





Key People: RFC Editor Staff & IANA Staff





Key People: IETF Executive Director



Jay Daley

The Ombudsteam

- Report any harassment to the <u>Ombudsteam</u> (<u>BCP 25</u>) <u>https://www.ietf.org/blog/ietf-anti-harassment-policy/</u>
- Allison Mankin, Pete Resnick, Melinda Shore







Badge Dots & Ribbons (Who's Who!)





NEW ATTENDEE

(Working Group or BOF Acronym) (Research Group Acronym)

HOST

- Working Group or BoF Chair
- Nominations Committee
- Internet Engineering Steering
 Group (IESG) Member
- Internet Architecture Board (IAB) Member

- Internet Research
 Group (IRSG) Member
- RFC Series Editor
- IETF LLC Board of Directors
 - TBD (WG or BOF)

TBD (RG)

OMBUDSTEAM

NEWCOMER

HOST

Newcomer Resources

The Tao of the IETF:

A Novice's Guide to the Internet Engineering Task Force https://www.ietf.org/about/participate/tao/

Newcomer's Information Page for IETF 105

https://www.ietf.org/how/meetings/106/newcomers/

Tutorials:

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

More Meeting Resources

Meeting wiki:

https://trac.ietf.org/trac/ietf/meeting/wiki/ietf106

First-time attendees mailing list

https://www.ietf.org/mailman/listinfo/106-newcomers

IETF Systers

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

Meeting mailing lists

https://www.ietf.org/how/meetings/ietf-meeting-mailing-lists/ (social lists, travel companions, meeting participants)

All the detailed information...

rsync -avz rsync.tools.ietf.org::tools.html ./html

· For a full list of the various rsync sources at tools.ietf.org,

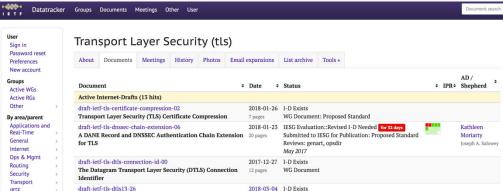


Draft TXT and HTML from XML source (xml2rfc)

Chairs Edu

Tools BOFs

NomCom



Tools Page https://tools.ietf.org/

Remote Participation

https://www.ietf.org/how/meetings/106/remote

- Attendance at face-to-face
 IETF meetings is not required.
- IETF supports remote attendance capabilities for all WG sessions.
- Meetecho is the tool for remote participation!



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

The Network @ IETF

https://tickets.meeting.ietf.org/wiki/IETF106network

- The IETF runs its own network (including sometimes the primary hotel)
- Generally up by early Saturday and down around noon on Friday
- There are a number of wireless SSIDs available
- Avoid ietf-legacy if possible. It is unencrypted (enough said...)
- Secure networks use userid: "ietf" and password: "ietf"
- There's a quiet work space (terminal room) with no terminals, but with power and wired Ethernet connectivity.
- And, there's a printer and a helpdesk in the registration area.

Jabber

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

- 1. Get a client: http://xmpp.org/software/clients.html
- 2. Register an account: https://list.jabber.at/
- 3. Join a chat room, usually: <wgname>@jabber.ietf.org

Used to ask questions and provide a hint of where the discussion is at on slides for audio remote listeners.

Above all: Enjoy!



Questions or Feedback?

https://www.surveymonkey.com/r/105new

What did we miss?

Please help us help you - answer our survey! https://www.surveymonkey.com/r/106new



Come to the feedback session Thursday morning!

Contact us at edu-team@ietf.org