

Internet Engineering Task Force

New Participants' Overview



Making the Internet work better

New Participants' Overview Presentation

1. **Overview of the IETF**
2. Introduction to an IETF meeting week
3. Overview of resources (people, tools, information)



Scope: Overview of the IETF

This part of the presentation includes:

- General information about the IETF
- Overview of the organization structure

This presentation does not include information about:

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

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.

[[RFC 3935](#)]



The IETF is ...

- A Standards Development Organization (SDO)
- With self-selected individual participants, no formal membership
- Driven by market-based adoption (a *real* standard is one people use)
- Focused on Internet technologies
- Bottom-up... and unique!
 - No formal voting (but we raise hands and occasionally hum...)
 - No formal government role
- And... no booths, sales promotions, or other sales related activities

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.

IETF Note Well (cont.)

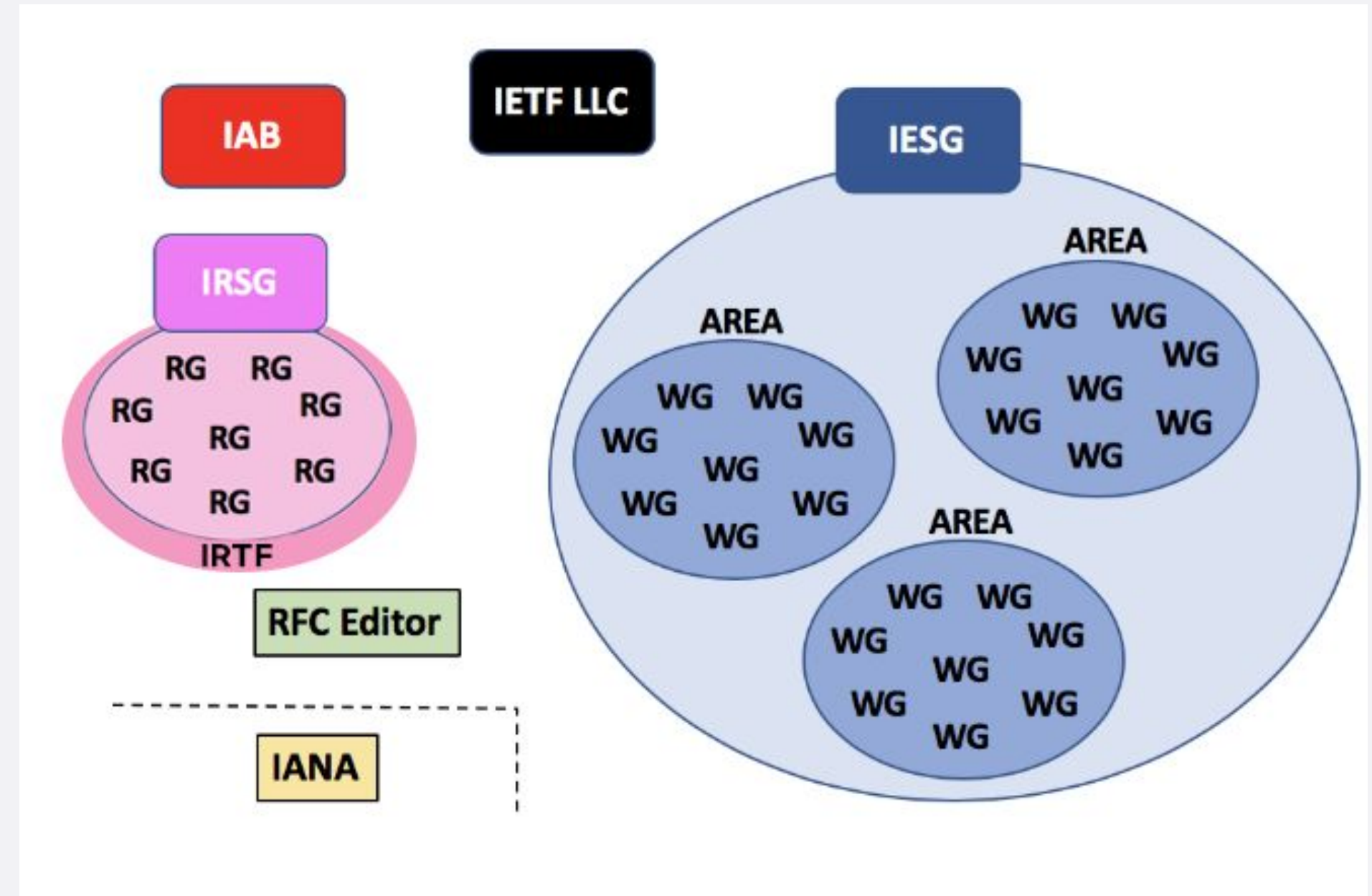
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (<https://www.ietf.org/contact/ombudsteam>) if you have questions or concerns 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)
- [Privacy Policy](#)

The Big Picture

- **Internet Engineering Steering Group (IESG)** responsible for technical management of IETF activities and the Internet standards process
- **Internet Research Steering Group (IRSG)** steering group for the Internet Research Task Force (IRTF), focused on longer-term Internet research topics
- **Internet Architecture Board (IAB)** provides oversight of the Internet architecture and the standards process
- **IETF Administration LLC** corporate home for the IETF, the IAB, and the IRTF; provides fiscal and administrative support



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

Leadership among the groups

IETF

- IETF Chair
- Area Directors (IESG)
(<https://www.ietf.org/about/groups/iesg/members/>)
- Working Group Chairs
(<https://datatracker.ietf.org/wg/photos/>)

IAB

- IAB Chair
- IAB Members

IRTF

- IRTF Chair
- IRSG



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](#)]

Joining Working Groups and contributing to existing work

- Review the Working Group webpage
 - Charter
 - Milestones
- Join the mailing list
- Review documents that are currently in progress
- If you have questions, contact the chairs.

<https://datatracker.ietf.org/wg/>

Domain Name System Operations (dnsop)

About Documents Meetings History Photos Email expansions List archive »

Edit milestones Manage document list Edit group Customize workflow Request closing group

WG	Name	Edit	Domain Name System Operations
	Acronym		dnsop
	Area		Operations and Management Area (ops)
	State	Edit	Active
	Charter		charter-ietf-dnsop-04 Approved
	Status update	Edit	(None)
	Document dependencies		Show
	Additional resources	Edit	Wiki , Zulip stream , github
Personnel	Chairs	Edit	Benno Overeinder , Suzanne Woolf , Tim Wicinski
	Area Director	Edit	Warren "Ace" Kumari
Mailing list	Address	Edit	dnsop@ietf.org
	To subscribe	Edit	http://www.ietf.org/mailman/listinfo/dnsop
	Archive	Edit	https://mailarchive.ietf.org/arch/browse/dnsop/
Chat	Room address		https://zulip.ietf.org/#narrow/stream/dnsop

Charter for Working Group

Bringing New Work to the IETF

- Develop some collaborators with similar interest
- Write some initial Internet-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://www.ietf.org/proceedings/103/slides/slides-103-edu-sessl-bringing-new-work-to-the-ietf-00.pdf>
 - video: <https://www.youtube.com/watch?v=YnK3rsZG4Ec>

Funding model for the IETF

The IETF relies on a variety of support to ensure its work remains open, accessible, and available to everyone around the world.

- Registration fees
- Donations
- Corporate contributions
- Sponsorships

For more information, please see: <https://www.ietf.org/support-us/>

IETF Participants (and culture)



Passionate, smart, vocal people.

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



Technical excellence is highly valued.

Do your homework then please speak up and contribute!



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




Close working relationships (people know each other)

For more information

<https://www.ietf.org/about/participate/get-started/>

**For any feedback or additional questions, please contact us
at emo-dir@ietf.org**



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Making the Internet work better

New Participants' Overview Presentation

1. Overview of the IETF
2. **Introduction to an IETF meeting week**
3. Overview of resources (people, tools, information)

Scope: Introduction to the IETF Meeting week

This part of the presentation includes:

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

This presentation does not include information about:

- Specific information related to a scheduled meeting

An IETF Meeting week

- 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 talks
 - Hackathon including a datatracker Code Sprint
 - Social Events (in person only)
 - Tutorials, Deep Dives & Lunch Sessions
 - Hot RFC Lightning Talks
 - Side Meetings, Open Time

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 Area Directors
- 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”

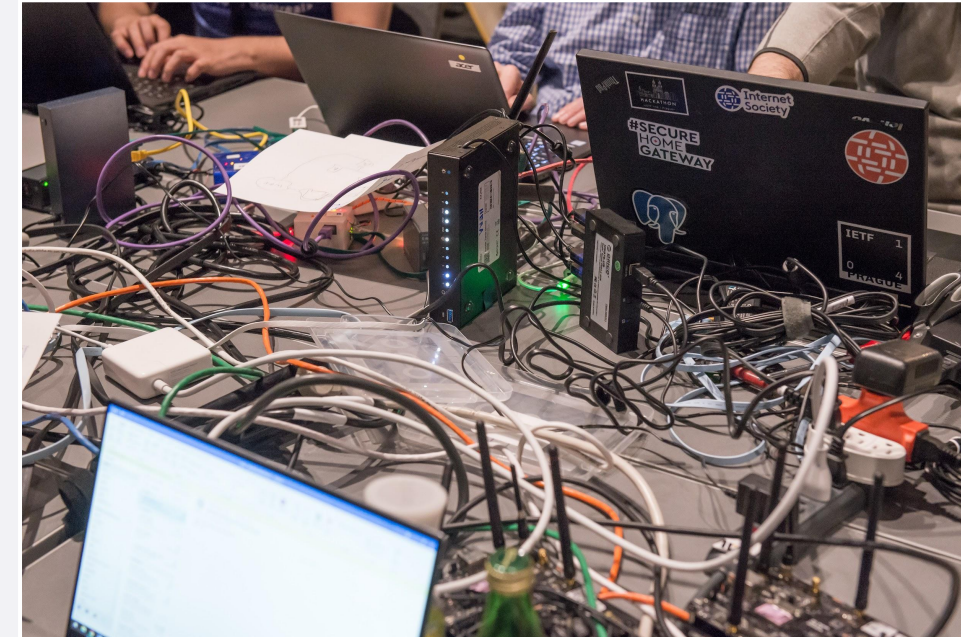
[\[RFC 7418\]](#)



Area-wide Sessions, Plenaries, and invited lunch talks



Hackathons and Code Sprints



Making the Internet work better

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
- <https://www.ietf.org/how/runningcode/hackathons/>

Networking and Social Events



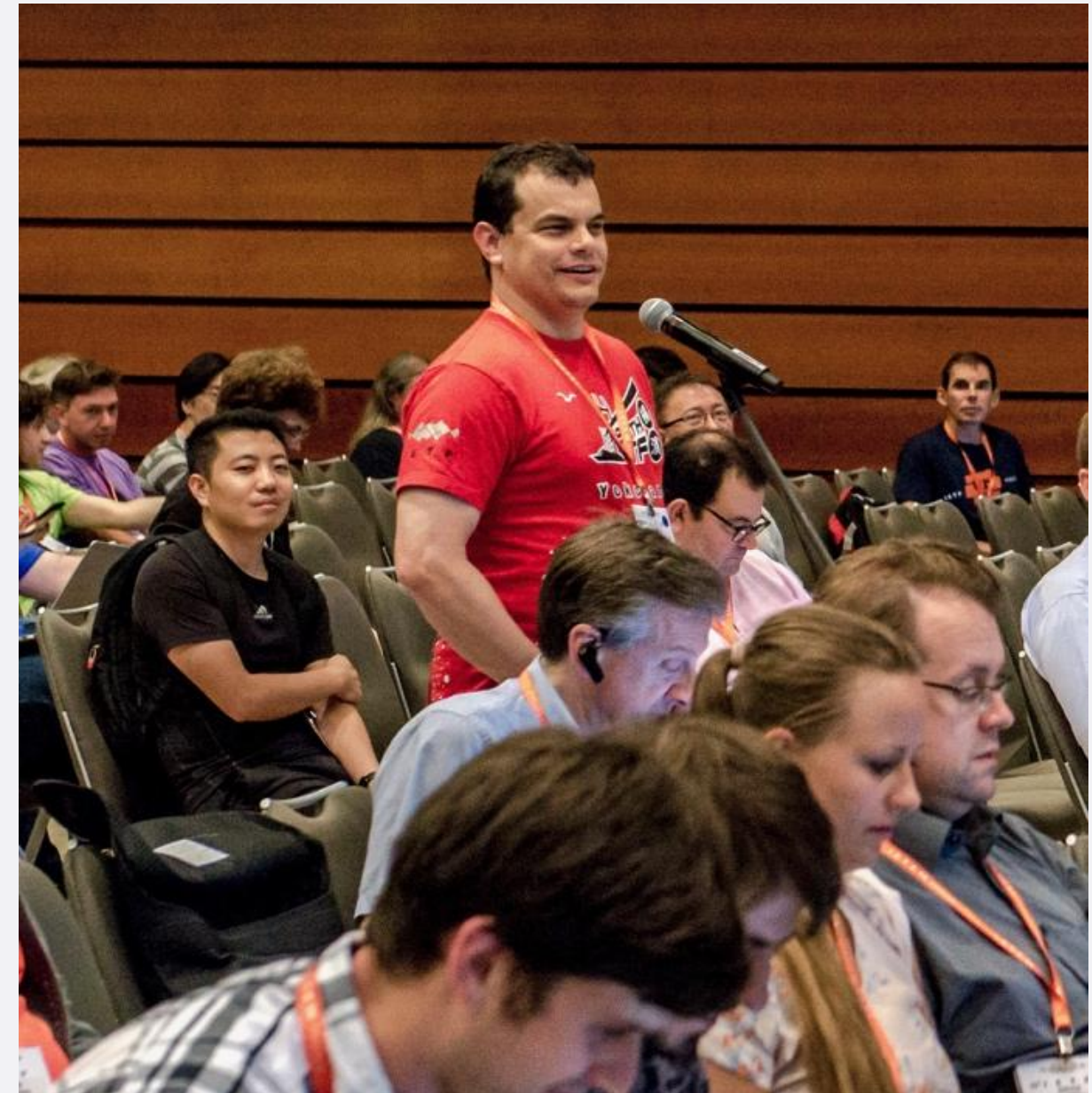
IETF Systems



<https://www.ietf.org/about/groups/ietf-systems/>

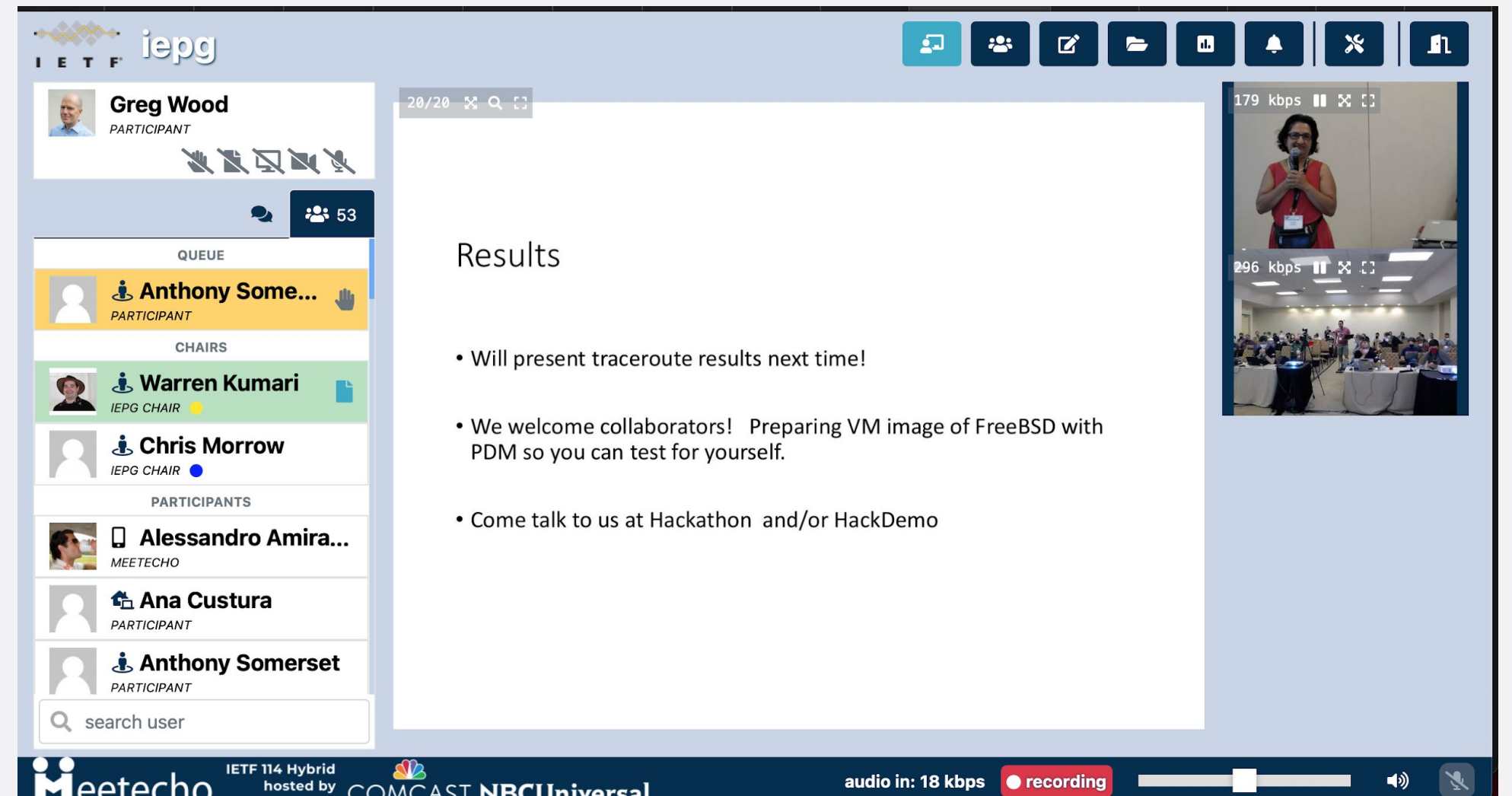
General Meeting Etiquette

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



IETF Session Etiquette - the online version!

- Test your configuration in advance.
- Use good online meeting etiquette.
 - Keep audio and video off except when speaking.
 - Use a headset if possible
 - Speak slowly and clearly.
- Technical comments & questions are welcome.
- Use the WG chat to discuss meeting-relevant topics. See zulip.ietf.org to sign up for Zulip account.



The screenshot shows a meeting interface for 'iepg'. On the left, a participant list includes Greg Wood (PARTICIPANT), Anthony Some... (PARTICIPANT), Warren Kumari (IEPG CHAIR), Chris Morrow (IEPG CHAIR), Alessandro Amira... (MEETECHO), Ana Custura (PARTICIPANT), and Anthony Somerset (PARTICIPANT). The central chat window displays the following text:

Results

- Will present traceroute results next time!
- We welcome collaborators! Preparing VM image of FreeBSD with PDM so you can test for yourself.
- Come talk to us at Hackathon and/or HackDemo

On the right, a video feed shows a person speaking. The bottom status bar indicates 'IETF 114 Hybrid hosted by COMCAST NBCUniversal', 'audio in: 18 kbps', and 'recording'.

But wait...there is more!


- New Participant sessions and events - Focusing on learning about the IETF and making connections
- Hot RFC - New ideas being presented to the IETF through short lightning style presentations
- Unofficial side meetings

Check the agenda for details!

For more information

<https://www.ietf.org/about/participate/get-started/>

**For any feedback or additional questions, please
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1. Overview of the IETF
2. Introduction to an IETF meeting week
3. **Overview of the resources (people, tools, information)**

Scope: Overview of resources (people, tools and other information)

This part of the presentation includes:

- Overview of the different roles people have in leadership and support
- Tools used in the IETF

This presentation does not include information about:

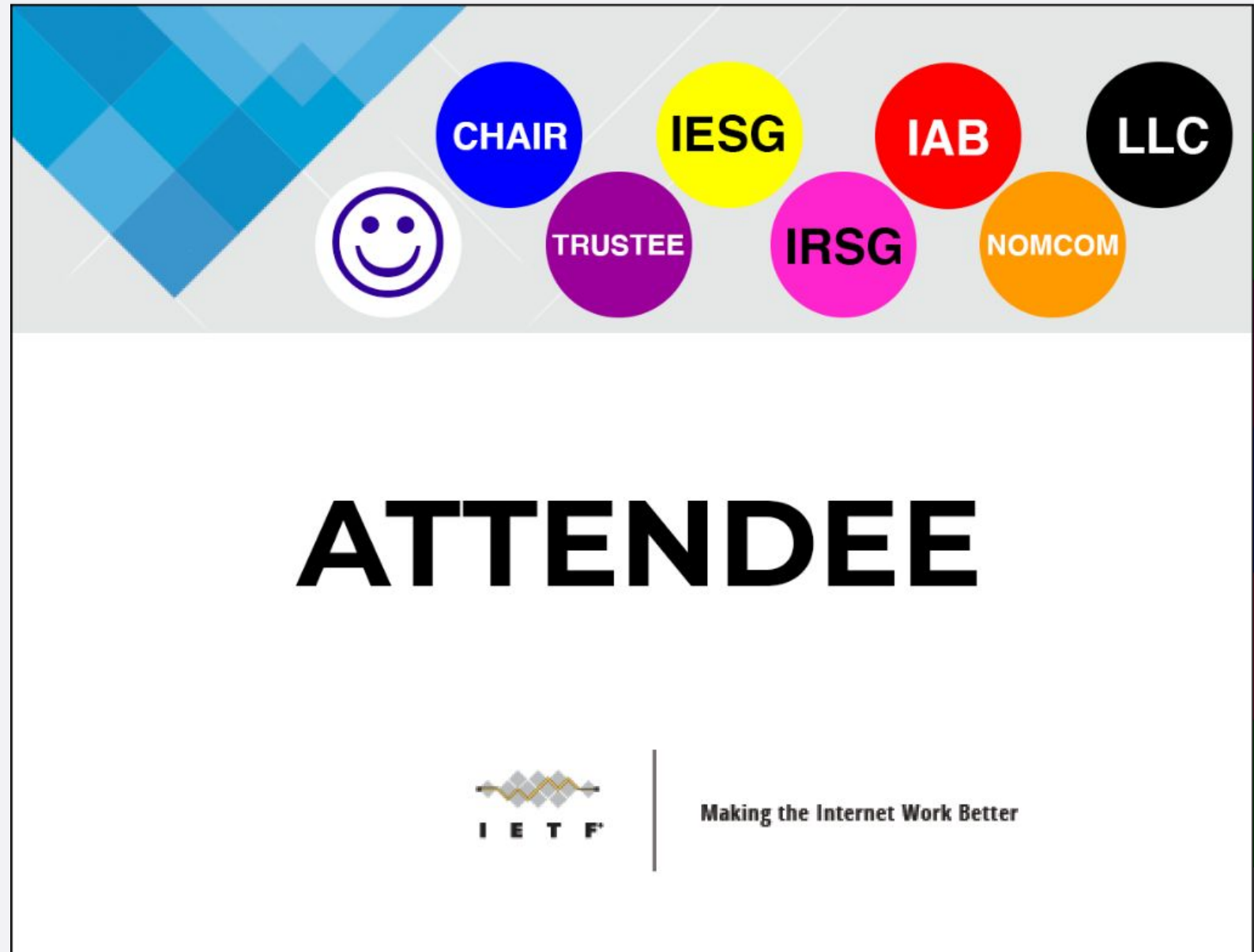
- How to use specific tools

Overview of People Resources

There are many people within the IETF organization that are here to help you.

- IETF Leadership
 - Area Directors (IESG)
 - Working Group Chairs
- IETF Support Staff

Badge Dots and Ribbons Guide (In-person meetings)



IETF Executive Director



Jay Daley

<https://datatracker.ietf.org/person/Jay%20Daley>

IETF Secretariat



RFC Editor Staff & IANA Staff



The Ombudsteam

The Ombudsteam was created to assist with any harassment issues at IETF.

- [Ombudsteam](#) ([RFC 7776](#), [BCP 25](#))

Allison Mankin



Pete Resnick



Melinda Shore



Reporting issues

IETF Participants must not engage in harassment while at IETF meetings, virtual meetings, social events or while participating in mailing lists.

<https://www.ietf.org/blog/ietf-anti-harassment-policy/>

If you have any 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. The following escalation process can be followed:

- Working Group Chairs (<https://datatracker.ietf.org/wg/photos/>)
- Area Directors (<https://www.ietf.org/about/groups/iesg/members/>)
- IETF General Chair (link to chair's email address?)

Ultimately report any harassment to the [Ombudsteam](#) ([RFC 7776](#), [BCP 25](#)).

The NOC and the Network @ IETF

At meetings, the IETF Network Operation Center (NOC) runs its own network at the venue.

There is a printer and a helpdesk in the registration area.

Please report any issues!

support@ietf.org



Mailing lists, mailing lists and more mailing lists!

Most of the work within the IETF gets done on mailing lists.

- Discussion Lists
 - General
 - Working Group
- Announcements
- Meeting specific lists

For information about everything related to IETF mailing lists, please visit: <https://www.ietf.org/how/lists/>

IETF Datatracker (<https://datatracker.ietf.org>)

The screenshot shows the IETF Datatracker website for the Transport Layer Security (tls) group. The browser address bar shows the URL <https://datatracker.ietf.org/wg/tls/documents/>. The website header includes the IETF logo, the word "Datatracker", and navigation links for Groups, Documents, Meetings, and Other. A user profile for "odonoghue@isoc.org" is visible. A search bar is present in the top right corner.

Transport Layer Security (tls)

Navigation tabs: About, Documents, Meetings, History, Photos, Email expansions, List archive »

Search: [Search] [x]

Document	Date	Status	IPR	AD/Shepherd
Active Internet-Drafts (13 hits)				
draft-farrell-tls-wkesni-03 A well-known URI for publishing ECHConfigList values.	7 pages 2022-05-24	I-D Exists Adopted by a WG		
draft-ietf-tls-ctls-06 Compact TLS 1.3	24 pages 2022-07-09	I-D Exists WG Document		Christopher A. Wood ✉
draft-ietf-tls-deprecate-obsolete-kex-00 Deprecating Obsolete Key Exchange Methods in TLS	20 pages 2022-06-15	I-D Exists WG Document		
draft-ietf-tls-dtls-rrc-06 Return Routability Check for DTLS 1.2 and DTLS 1.3	21 pages 2022-07-06	I-D Exists In WG Last Call : Proposed Standard		
draft-ietf-tls-esni-14 TLS Encrypted Client Hello	48 pages 2022-02-13	I-D Exists WG Document Mar 2021		
draft-ietf-tls-external-psk-guidance-06 Guidance for External PSK Usage in TLS	16 pages 2022-02-04	RFC Ed Queue : AUTH48-DONE 171 Submitted to IESG for Publication : Informational Reviews: secdir secdir LC artart LC opsdir LC		Benjamin Kaduk ✉ Sean Turner ✉

Meetecho

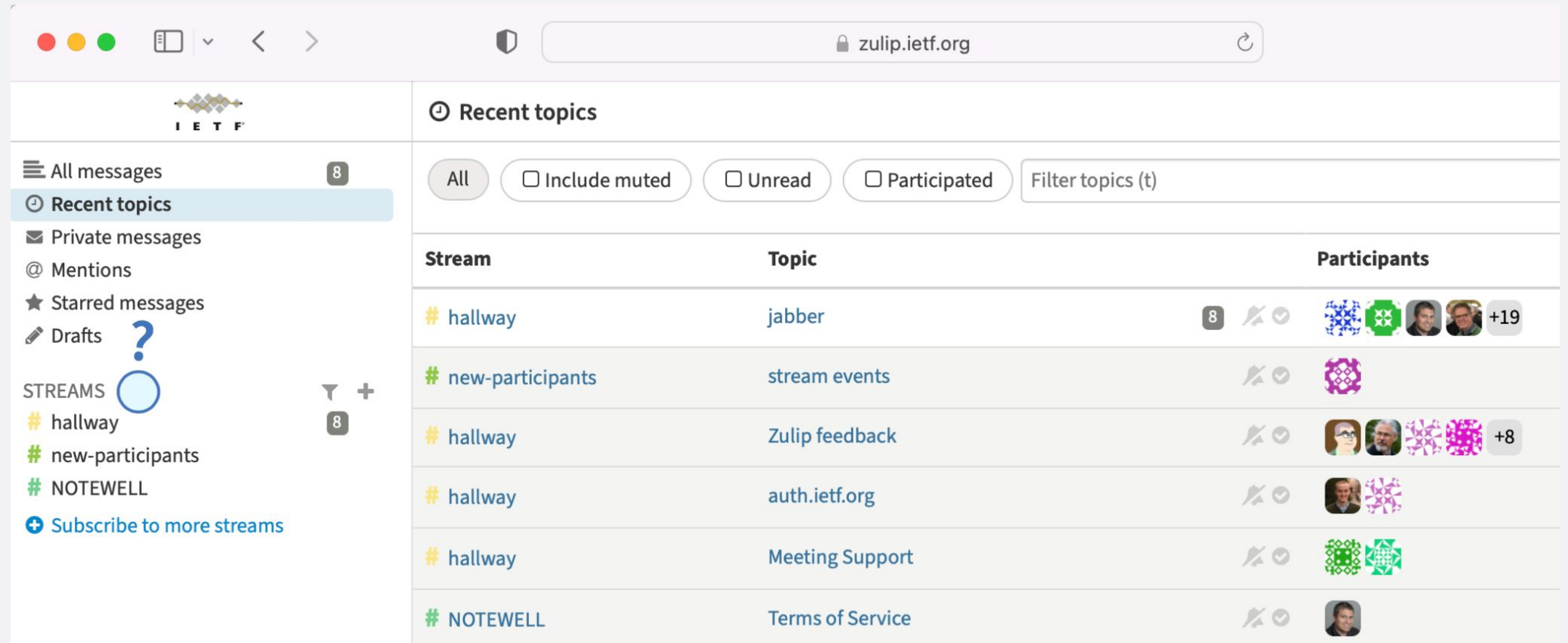
- Meetecho is the IETF custom tool for remote participation!
- All sessions are linked off of the datatracker agenda page.
- Additional information <https://www.ietf.org/how/meetings/technology/meetecho-guide-participant/>
- Participate in practice sessions



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

Zulip

- The IETF's chat server
- Use your datatracker credentials to log in



For more information please see:
<https://www.ietf.org/how/meetings/groupchat/>

Additional Resources

Getting Started in the IETF

<https://www.ietf.org/newcomers>

The Tao of the IETF: A Novice's Guide to the Internet Engineering Task Force

<https://www.ietf.org/about/participate/tao/>

The Glossary (Meanings of terms and Acronyms)

<https://www.ietf.org/about/glossary/>

Meeting mailing lists

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

One stop shop for all links:

<https://www.ietf.org/links/>

Above all: Enjoy!



For more information

<https://www.ietf.org/about/participate/get-started/>

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at emo-dir@ietf.org**