Internet Engineering Task Force
New Participants’ Overview (@ IETF 115)

Making the Internet work better
New Participant’s Overview Presentation

1. Overview of the IETF
2. Introduction to an IETF meeting week
3. Overview of resources (people, tools, information)
4. New Participant Activities at IETF 115
Scope: Overview of the IETF

This part of the presentation includes:

- General information about the IETF and overview of the organization structure
- Information immediately useful to you as you attend your first(ish) IETF meeting and strategies to make the most of the meeting (in person or remote)
- Different roles people have in leadership and support, overview of tools used
- Events at IETF 115

This presentation does not include information about:

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

• Notewell
• Attendance
• Asking Questions
• Covid guidelines
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:

• 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)
- BCP 79 (Patents, Participation)
- Privacy Policy
Tracking attendance at the IETF Meeting

- At each Working Group session there is a QR code to scan
- This helps keep track of who attended which meetings
- For those of you who haven’t done so yet, please scan the QR code
- If you have any questions or had problems with this process, check with a staff member after this meeting.
How to ask a question during the meeting

- Use Meetecho or Meetecho Lite
- Put yourself in the queue
- In Person vs. Remote
- At the microphone you state your name
Covid Guidelines

- The IETF is trying very hard to make this a safe environment for participants so that we can continue to meet in person.
  - Masks
  - Testing
  - Pins to indicate what type of greeting is ok (no contact, elbow tap, hug)

See https://www.ietf.org/how/meetings/115/faq/#covidmeasures for more information.
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IETF Mission

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]
IETF
Ethos

- **Everyone** may participate
- Make all work available for **free**
- Judge contributions on **technical merits**
- Determine success by **voluntary deployment**
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
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

<table>
<thead>
<tr>
<th>Area</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications and Real-Time (ART)</td>
<td>• Application protocols and architectures&lt;br&gt;• Real-time (communication) and non-real-time</td>
</tr>
<tr>
<td>Transport (TSV)</td>
<td>• Mechanisms related to data transport on the Internet - Includes congestion control</td>
</tr>
<tr>
<td>Routing (RTG)</td>
<td>• Routing and signaling protocols</td>
</tr>
<tr>
<td>Internet (INT)</td>
<td>• IPv4/IPv6, DNS, DHCP, mobility</td>
</tr>
<tr>
<td>Operations and Management (OPS)</td>
<td>• Network management&lt;br&gt;• Operations: IPv6, DNS, security, routing</td>
</tr>
<tr>
<td>Security (SEC)</td>
<td>• Security protocols and mechanisms</td>
</tr>
<tr>
<td>General (GEN)</td>
<td>• Activities focused on supporting and updating IETF processes</td>
</tr>
</tbody>
</table>
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/)

IRTF
● IRTF Chair
● IRSG

IAB
● IAB Chair
● IAB Members
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/
IETF
How New Work Starts

- **Contribution-driven**, bottom-up process
  - Participants identify a **problem that needs solving**
- The **problem fits** one of the IETF areas
  - And **aligns with architectural principles** of the Internet
- **Scope is well defined** and understood
  - Research is complete, **engineering work** is needed
  - Agreement on **timetables and milestones**
- **Willing people** to do the work
  - Typically not just initial proponents
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:
  - video: [https://www.youtube.com/watch?v=YnK3rsZG4Ec](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.

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

Technical excellence is highly valued.

Do your homework then please speak up and contribute!

Close working relationships (people know each other)
New Participants’ Overview Presentation

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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/](https://www.ietf.org/how/runningcode/hackathons/)
Networking and Social Events
IETF Systers

https://www.ietf.org/about/groups/ietf-systers/
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.
New Participants’ Overview Presentation

1. Overview of the IETF
2. Introduction to an IETF meeting week
3. **Overview of the resources (people, tools, information)**
4. New Participant Activities at IETF 115
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 was created to assist with any harassment issues at IETF.

- **Ombudsteam** ([RFC 7776, BCP 25](https://www.rfc-editor.org/rfc/rfc7776))

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-ani-harassment-policy/](https://www.ietf.org/blog/ietf-ani-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/](https://datatracker.ietf.org/wg/photos/))
- Area Directors ([https://www.ietf.org/about/groups/iesg/members/](https://www.ietf.org/about/groups/iesg/members/))
- IETF General Chair (link to chair’s email address?)

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/
## Transport Layer Security (tls)

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**Active Internet-Drafts (13 hits)**

<table>
<thead>
<tr>
<th>Document</th>
<th>Date</th>
<th>Status</th>
<th>IPR</th>
<th>AD/Shepherd</th>
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<tbody>
<tr>
<td>draft-farrell-tls-wkesni-03</td>
<td>2022-05-24</td>
<td>I-D Exists</td>
<td></td>
<td></td>
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<tr>
<td>A well-known URI for publishing ECHConfigList values.</td>
<td>2022-05-24</td>
<td>Adopted by a WG</td>
<td></td>
<td></td>
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<tr>
<td>draft-ietf-tls-cts-06</td>
<td>2022-07-09</td>
<td>I-D Exists</td>
<td></td>
<td></td>
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<tr>
<td>Compact TLS 1.3</td>
<td></td>
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<td></td>
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<tr>
<td>draft-ietf-tls-deprecate-obsolete-kex-00</td>
<td>2022-06-15</td>
<td>I-D Exists</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deprecating Obsolete Key Exchange Methods in TLS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>draft-ietf-tls-dtls-rro-06</td>
<td>2022-07-06</td>
<td>I-D Exists</td>
<td></td>
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<tr>
<td>Return Routability Check for DTLS 1.2 and DTLS 1.3</td>
<td>2022-07-06</td>
<td>In WG Last Call : Proposed Standard</td>
<td></td>
<td></td>
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<tr>
<td>draft-ietf-tls-esni-14</td>
<td>2022-02-13</td>
<td>I-D Exists</td>
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<tr>
<td>TLS Encrypted Client Hello</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>draft-ietf-tls-external-psk-guidance-06</td>
<td>2022-02-04</td>
<td>RFC Ed Queue : AUTH48-DONE</td>
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<tr>
<td>Guidance for External PSK Usage in TLS</td>
<td></td>
<td>Submitted to IESG for Publication : Informational Reviews:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>secdir secdir LC artart LC opsdir LC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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[https://datatracker.ietf.org](https://datatracker.ietf.org)
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
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/
New Participant’s Overview Presentation

1. Introduction and overview of newcomer’s activities
2. Structure of the IETF
3. Introduction to an IETF meeting week
4. New Participant Activities at IETF 115
New Participant Activities @ IETF 115

Each IETF meeting has a set of IETF new participant activities planned. These vary from meeting to meeting. Here is what is planned for IETF 115!

- New Participants’ Overview Tutorial (this session)
- New Participants’ Quick Connections (Sun @ 16:00, 23rd Floor - sign up)
- New Participants’ Dinner (Mon @ 19:00, Tyburn Kitchen – ticket for purchase)
- New Participants’ Social Hour (Thurs @ 18:00, Tyburn Kitchen)

Be sure to check the New Participants’ webpage for the latest schedule. https://www.ietf.org/how/meetings/115/new-participants/
Make sure you are subscribed to the new participant mailing list for helpful information and reminders.
Additional Activities @ IETF 115

There are also some activities that are not described as New Participant activities but you are highly encouraged to join!

- Welcome Reception (Sun @ 17:00, Kensington 2)
- Hot RFC (Sun @ 18:00, Kensington 1)
- Systers Networking (Mon @ 08:00, 23rd Floor)
- Technology Deep Dive - part 1 (Mon @ 08:00, Kensington 1)
- Technology Deep Dive - part 2 (Tues @ 07:30, Kensington 1)
- Social Event (Tues @ 19:00, The Victoria and Albert Museum)
  - Currently Sold Out
- IETF Plenary (Wed @ 17:00, Kensington Suite)

Check the agenda for specific information:
https://datatracker.ietf.org/meeting/115/agenda/
Still not sure where to start @ IETF 115

Check out the following!

- Blog post: https://www.ietf.org/blog/ietf115-new-topics/
- The agenda: https://datatracker.ietf.org/meeting/115/agenda/
- Connect with other new participants
  - In Person
  - Via Chat (Zulip)
  - Via Mailing lists

During the week a table will be near the registration desk for new participants to meet and chat with a staff member. (Hours will vary)
Where to get help @ IETF 115

If you need any assistance during the week, try the following:

● Registration desk (General questions)
● Technical help desk (Network problems or issues with tools)
● RFC Editor (questions about publishing documents as RFCs)
● IANA desk (questions about protocol parameter registries)
● Ombudsman (questions about harassment or any other issue)
● Terminal room
● Area Director office hours

Check the agenda for any changes.

**Meeting issues: Please send email to:** support@ietf.org
Above all: Enjoy!
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