

# IETF 117 Plenary



# 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.

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)
- <https://www.ietf.org/privacy-policy/> (Privacy Policy)



# IETF 117 Online Meeting Tips

For participants joining by Meetecho:

- Your audio will be muted and video will be off when you join
- Unmute only when you are recognized in the queue
- Video is welcome when you are speaking in the queue
- Use of a headset is strongly recommended
- More details:

<https://www.ietf.org/how/meetings/technology/meetecho-guide-participant/>

# AGENDA (1 of 2)



<b>Topic</b>	<b>Speaker</b>
<b>Welcome</b>	Lars Eggert
<b>Host Presentation</b>	Vach Kompella, VP of IP Networking, Nokia
<b>IETF Chair &amp; Internet Engineering Steering Group (IESG) Report</b>	Lars Eggert
<b>Internet Architecture Board (IAB) Report</b>	Mirja Kühlewind
<b>Internet Research Task Force (IRTF) Report</b>	Colin Perkins
<b>Nominating Committee (NomCom) Report</b>	Martin Thomson
<b>IETF Administration LLC Report</b>	Jay Daley, Jason Livingood
<b>IETF Trust Report</b>	Glenn Deen

# AGENDA (2 of 2)



Topic	Speaker
<b>Moving to WPA2/3</b>	Warren Kumari
<b>In Memoriam: John Leslie</b>	Barry Leiba
<b>In Memoriam: Al Morton</b>	Sarah Banks
<b>Open Mic Session: Internet Engineering Steering Group (IESG)</b>	IESG
<b>Open Mic Session: Internet Architecture Board (IAB)</b>	IAB
<b>Open Mic Session: IETF Administration LLC</b>	IETF LLC Board

Thank you to everyone who  
helped make this meeting happen!

Secretariat

Meetecho

NOC

LLC

Tools Team

Hackathon Support

# Host Presentation

*Vach Kompella, VP of IP Networking,  
Nokia*

NOKIA



# SAN FRANCISCO MARATHON

Taking a break from the IETF Hackathon to win a half marathon and add new meaning to the phrase “running code”.

## Samier Barguil NOKIA

1st Half Marathon

TIME (CHIP) FULL COURSE

PACE  MIN/MI  KM

**1:14:11**

**5:40**

Ranking

OVERALL

MALE

M30-34

**1** / 6093

**1** / 3346

**1** / 726

Race Summary

CHIP START TIME

**6:30:03** AM PDT

DISTANCE

**13.1** Miles

GUN TIME

**1:14:13**





# IETF Chair & IESG Report

*Lars Eggert*

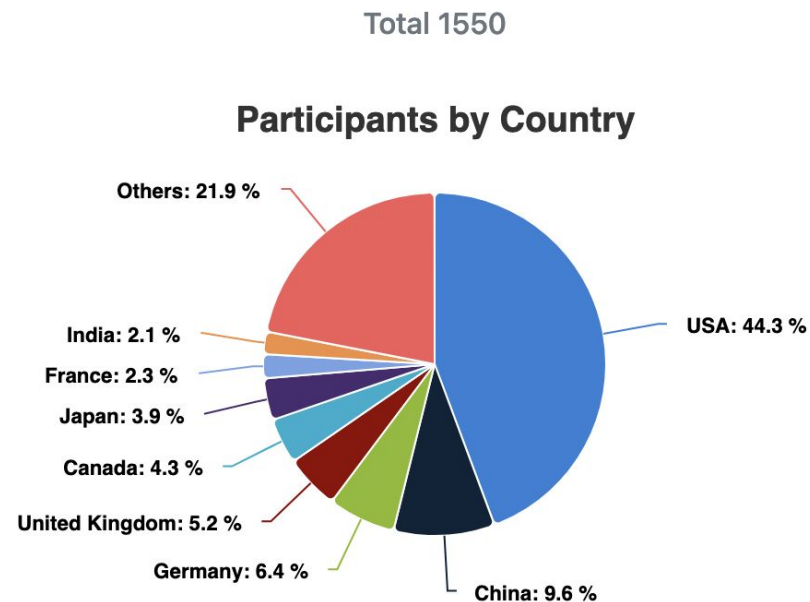


# IETF Chair Report

- Participant Statistics
- Planning for Future Meetings
- IESG Statements and Announcements
- Topics Covered Online

# IETF 117 Participant Stats as of 2023-07-26

- **1550** registrations
  - **899** on-site
  - **651** remote
- Fee waivers - Remote
  - **357** granted, **246** used
- Fee waivers - Onsite
  - IETF: **10** requests, **9** granted
  - IRTF: **13** requests, **9** granted
  - ANRW: **10** granted
- **423** Hackathon registrations
  - **362** on-site, **61** remote
  - **83** Hackathon-only (**50** onsite, **33** remote)
  - **33** projects



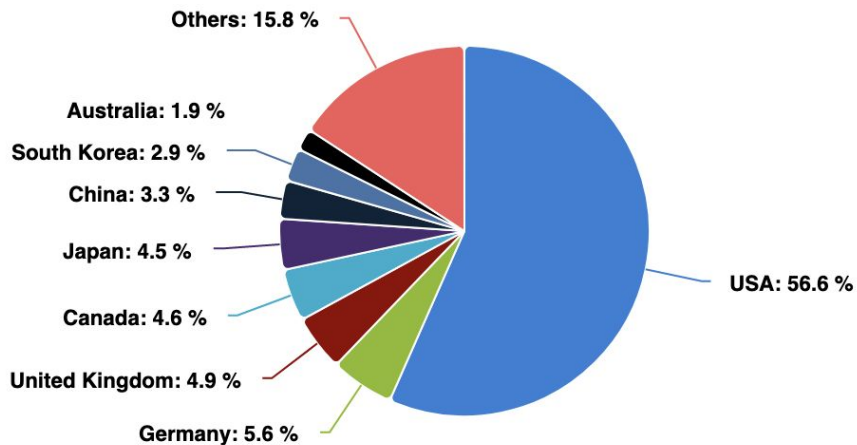
Detailed attendance stats will be posted after the meeting

# IETF 117 Participant Stats as of 2023-07-26

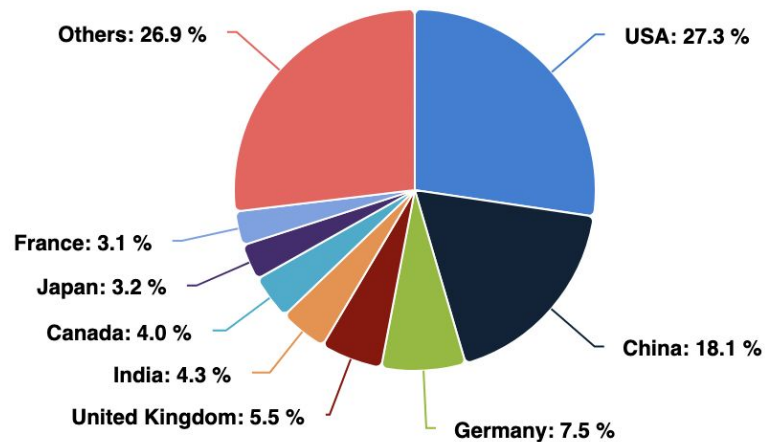
**Onsite: 899**

**Remote: 651**

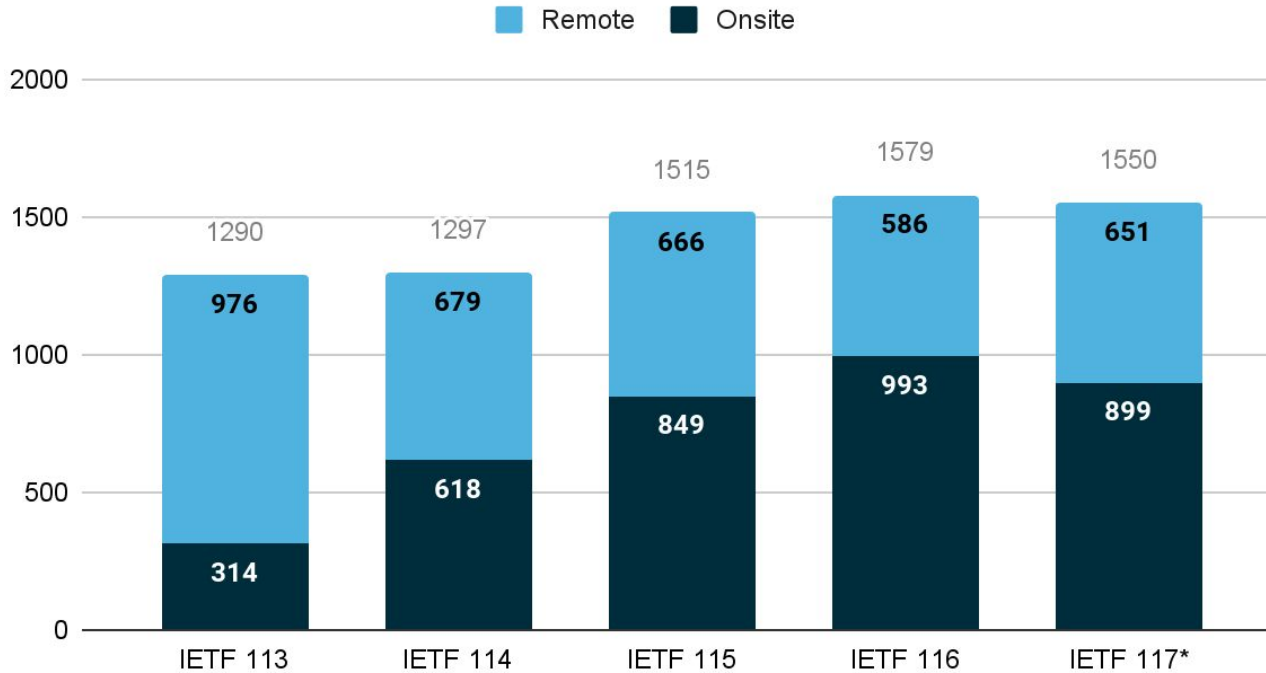
**Participants by Country**



**Participants by Country**



## Meeting Registration over Time



**\* Final registration numbers for IETF 117 will be posted after the meeting.**

# IESG Statements and Announcements



- [IESG Statement on EtherTypes](#) (2023-05-01)
- [Call for Nominations: RFC Series Working Group \(RSWG\) Chair](#) (2023-06-22)
- [Call for feedback: IESG appointment to RFC Series Working Group \(RSWG\) Chair](#) (2023-07-21)

# Topics Covered Online

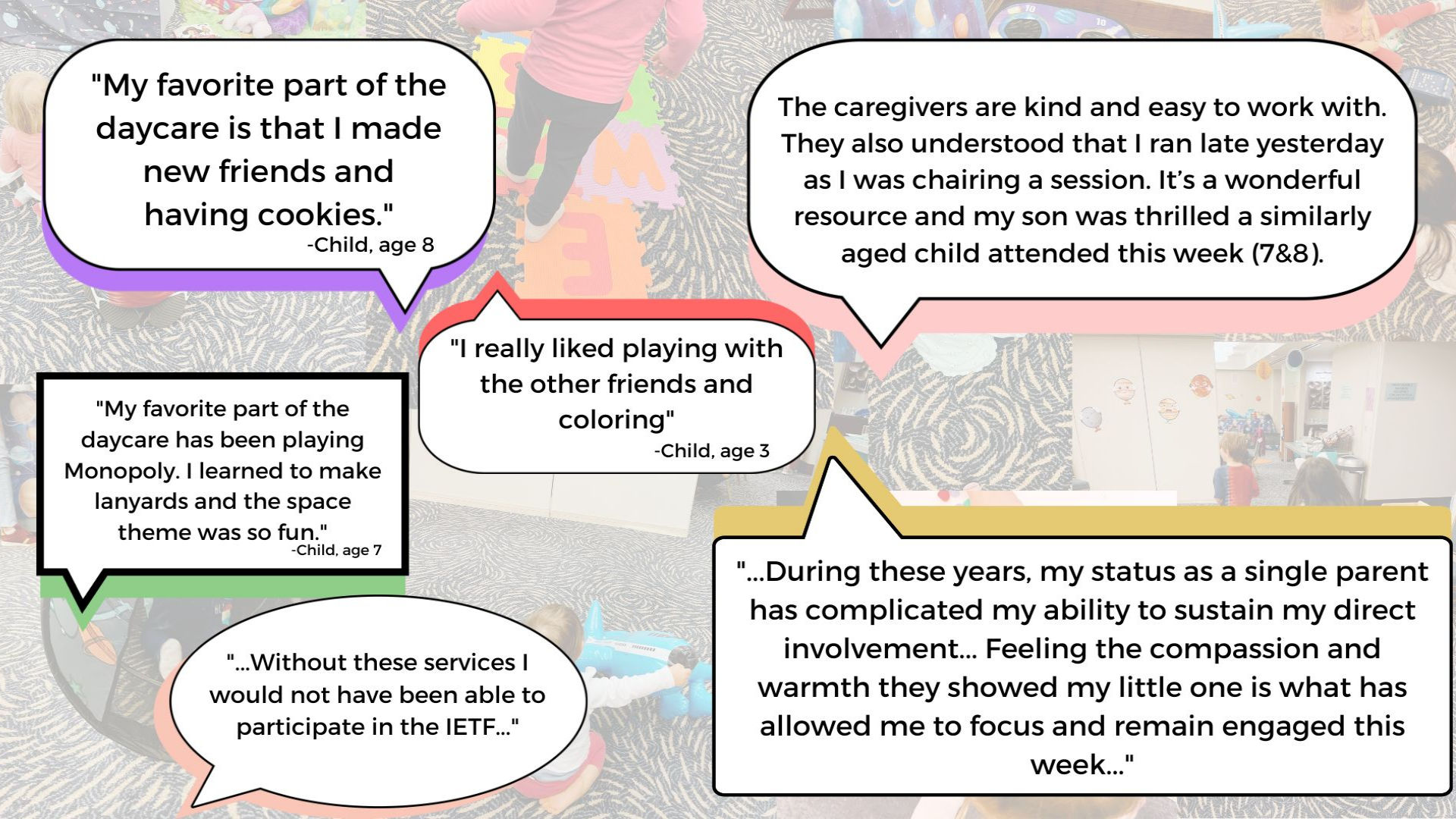
- 1 Appeal since IETF 116
  - [Appeal of current Guidance on in-Person and Online meetings](#) (Ted Hardie, Alan Frindell, 2023-07-19)
- More, including reports from the IAB, IETF LLC Board, Secretariat, and IANA:  
<https://datatracker.ietf.org/meeting/materials/>
- IETF Blog: <https://www.ietf.org/blog/>



# Kids Welcome!

Childcare is planned to be provided  
at all 2023 IETF meetings  
(and likely beyond)

We hope you plan to use this service!



"My favorite part of the daycare is that I made new friends and having cookies."

-Child, age 8

The caregivers are kind and easy to work with. They also understood that I ran late yesterday as I was chairing a session. It's a wonderful resource and my son was thrilled a similarly aged child attended this week (7&8).

"I really liked playing with the other friends and coloring"

-Child, age 3

"My favorite part of the daycare has been playing Monopoly. I learned to make lanyards and the space theme was so fun."

-Child, age 7

"...Without these services I would not have been able to participate in the IETF..."

"...During these years, my status as a single parent has complicated my ability to sustain my direct involvement... Feeling the compassion and warmth they showed my little one is what has allowed me to focus and remain engaged this week..."



# Internet Architecture Board (IAB)

*Mirja Kühlewind*



# IAB Report IETF-117 (San Francisco)

The full IAB report can be found on the IAB webpage and in the proceedings:

<https://datatracker.ietf.org/meeting/117/materials/slides-117-ietf-sessc-iab-report-to-the-community-for-ietf-117-01>

Highlighting recent IAB documents

- [RFC 9413](#) (Maintaining Robust Protocols) and [RFC 9419](#) (Considerations on Application - Network Collaboration Using Path Signals) published

For feedback or questions, feel free to send mail to [iab@iab.org](mailto:iab@iab.org) or [iab-chair@iab.org](mailto:iab-chair@iab.org)!

# Proposed IAB Technical Programs

- [Wholistic Human-Oriented Discussions on Identity Systems \(WHODIS\)](#)  
focuses on standardized identity systems used in practice, particularly:
  1. Survey the identity standardization landscape (inside and outside of the IETF)
  2. Distill practical use cases for identity systems
  3. Identify gaps and opportunities for technical work that can help address important use cases
- [E-impact](#)
  - Venue for discussing environmental impacts and sustainability of Internet technology
  - Targets topics not yet progressed into concrete standards or research efforts in the IETF/IRTF
  - Coordination point for work across multiple WGs/RGs

**Please provide feedback to [architecture-discuss@iab.org](mailto:architecture-discuss@iab.org) / [e-impact@ietf.org](mailto:e-impact@ietf.org)  
or directly to the IAB ([iab@iab.org](mailto:iab@iab.org))!**

# Appointments and Thanks!



**Suzanne Woolf**

appointed as the IETF  
delegate to the ICANN  
Nominating Committee



**Laura Thomson**

re-appointed to the  
ISOC Board of Trustees

- **Russ Housley** and **Barry Leiba** re-appointed to [Community Coordination Group \(CCG\)](#)
- **Tim April** re-appointed to [Root Zone Evolution Review Committee \(RZERC\)](#)

# A Note on Recent Blog Posts

- [Report from the 2023 IAB and IESG retreat](#)
- [IETF 116 Highlights and other thoughts](#)

*Did you read them? Did you find them interesting? Is that a good way to report out? Would you like to see more? Or something different?*

**Please provide feedback to the IAB/IESG,  
me ([ietf@kuehlewind.net](mailto:ietf@kuehlewind.net)) as author, or  
Greg Wood ([ghwood@staff.ietf.org](mailto:ghwood@staff.ietf.org)) our Director of Communications!**

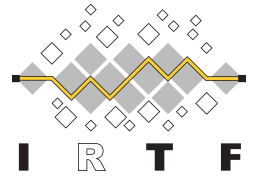
# Other IAB meetings

The **IAB Liaison Coordinators** will hold *office hours* Thursday lunch time

- When: Thursday, July 27, 11:30-12:30
- Where: Continental 1

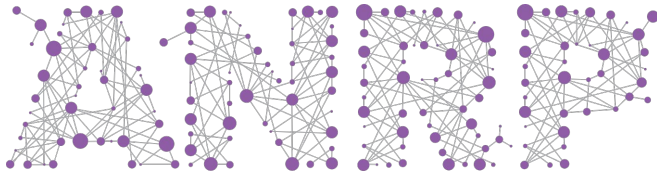
EDM program meeting was this morning! But feel free to join the mailing list: [edm@iab.org](mailto:edm@iab.org)

IAB Open meeting was yesterday!



# Internet Research Task Force (IRTF)

*Colin Perkins*



Applied Networking Research Prize

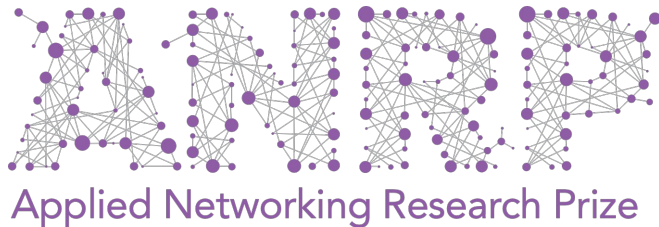


**Internet  
Society**



The Applied Networking Research Prize recognises:

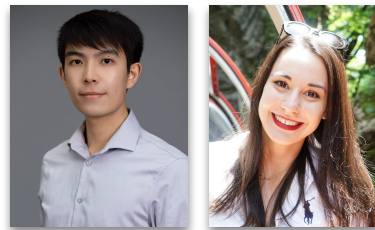
- The best recent results in applied networking
- interesting new research ideas of potential relevance to the Internet standards community; and
- upcoming people that are likely to have an impact on Internet standards and technologies



- Two ANRP award talks tomorrow:
  - **Simon Scherrer** for his work on modelling the BBR congestion control algorithm
  - **Siva Kakarla** for his work on verifying the correctness of nameservers
- Papers and slides at <https://irtf.org/anrp/>, recordings on the IETF Channel on YouTube

# Applied Networking Research Workshop

- ACM/IRTF Applied Networking Research Workshop (ANRW) 2023 took place earlier this week
- Thank you to the organisers (Francis Yan and Maria Apostolaki), reviewers, authors, and speakers
- Thank you to travel grant sponsors



- <https://irtf.org/anrw/2023/program.html>



# Applied Networking Research Workshop

- ACM/IRTF Applied Networking Research Workshop (ANRW) **2024** will co-locate with IETF 120 in July 2024
- Organisers will be Simone Ferlin (Red Hat) and Ignacio Castro (Queen Mary University of London)
- Details to come at <https://irtf.org/anrw/2024/>





# NomCom 2023-2024

*Martin Thomson*

# NomCom 2023-2024

Nominates IETF leadership for 2024

Open positions

IAB: 6 members

IESG: ART (2!), INT, OPS, RTG, SEC, TSV

IETF LLC: 1 director

IETF Trust: 1 trustee

# NomCom 2023-2024 People

Chair: Martin Thomson

Liaisons:

IESG: John Scudder

IAB: Suresh Krishnan

IETF LLC Board: Mirjam Kühne

IETF Trust: Stephan Wenger

ISOC Board: Sagarika Wickramasekera

Advisors:

Rich Salz (2022-2023 chair)

Robert Sparks (Tooling)

Voting Members:

**Hang Shi**

**Matthew Quick**

**Eric Rescorla**

~~**Luis M. Contreras**~~

**Charles Eckel**

**Andrew Stone**

**Kyle Rose**

**Chris Lemmons**

**Wei Pan**

**Jorge Rabadan**

**Benson Muite**

# Timeline

Now 

IETF 117 - NomCom seated

Between now and IETF 118

Nominations

Feedback

Interviews

~ IETF 118 - Deliberations

IETF 119 - Positions filled



# IETF Administration LLC

*Jay Daley, Jason Livingood*

# IETF Administration LLC Report

## Part 1 - Operations

Jay Daley

Executive Director

**IETF 117**  
**July 2023**



Making the Internet work better

**IETF Administration LLC**

**Thank you to the IETF 117 Host and Welcome Reception Sponsor**

**NOKIA**

**Gold** Diversity  
and Inclusion



**Gold** Running  
Code



**ERICSSON**

**Gold**  
Sustainability



# IETF Administration LLC

Thank you to the IETF 117 Silver and Bronze sponsors

**Silver**

Diversity and Inclusion



**Silver**

Running Code



**Bronze**

Diversity and Inclusion



**Bronze**

Running Code



## IETF Administration LLC

Thank you to the equipment, services and connectivity sponsors



Making the Internet work better



## Codesprint

Jari Arkko  
Roman Beltiukov  
Ryan Cross  
Lars Eggert  
Jim Fenton  
Nicolas Giard  
Tero Kivinen  
Liu Kurafeeva  
Jean Mahoney

Darrel Miller  
Ali Mohammadi  
Priyanka Narkar  
Kesara Rathnayake  
Jennifer Richards  
Rich Salz  
Paul Selkirk  
Robert Sparks  
Éric Vyncke  
Peter Yee

## NOC

Hirochika Asai (Preferred Networks/WIDE)  
Rob Austein (Arcus)  
Joe Clarke (Cisco)  
Bill Fenner (Arista)  
Bill Jensen (University of Wisconsin–Madison)  
Hans Kuhn (NSRC)  
Fabiha Kumari  
Warren Kumari (Google)  
Chris Morrow (Google)  
Karen O'Donoghue (ISOC)  
Clemens Schrimpe  
Momoka Yamamoto (The University of Tokyo)

**Thanks to the entire hard working team**

## **Secretariat**

Alexa Morris  
Amy Vezza  
Cindy Morgan  
Glen Barney  
Jenny Bui  
Laura Nugent  
Lindsey Gil  
Liz Flynn  
Michelle Cotton  
Paige Mustafa  
Ryan Cross  
Stephanie McCammon

## **Meetecho**

Alessandro Amirante  
Alessandro Toppi  
Lorenzo Miniero  
Paolo Saviano  
Simon Pietro Romano  
Tobia Castaldi

## **Tools**

Margaret Cullen  
Mark Donnelly  
Paul Selkirk

## **NOC**

Rick Alfvín  
Stetson Alfvín  
Sean Croghan  
Nick Kukich  
Con Reilly

# IETF Administration LLC Staff



**Jay Daley**  
IETF Executive  
Director



**Greg Wood**  
Director of  
Communications and  
Operations



**Lee-Berkeley Shaw**  
Director of Development



**Robert Sparks**  
Tools Team PM



**Kesara  
Rathnayake**  
Senior Software  
Development  
Engineer



**Nick Giard**  
Senior Software  
Developer



**Debbie Sasser**  
Director of Finance



**Jennifer Richards**  
Senior Developer

## IETF Administration LLC

Thanks to all of our Global Hosts and Global Supporters



# IETF 118 Prague

## 4-10 November 2023



Contact us about  
host and sponsor  
opportunities!

# IETF 119 Brisbane

## 16-22 March 2024



Contact us about  
host and sponsor  
opportunities!

## IETF Administration LLC

### Future meeting locations and venues

MEETING LOCATION	VENUE	DATES	HOSTS
<b>IETF 118 – Prague</b>	Hilton Prague	November 4-10, 2023	*
<b>IETF 119 – Brisbane</b>	Brisbane Convention Centre	March 16-22, 2024	*
<b>IETF 120 – Vancouver</b>	Hyatt Regency Vancouver	July 20-26, 2024	Huawei
<b>IETF 121 – Dublin</b>	Convention Centre Dublin	November 2-8, 2024	*
<b>IETF 122 – Bangkok</b>	Marriott Marquis Queen's Park	March 15-21, 2025	*
<b>IETF 123 – Madrid</b>	Melia Castilla	July 19-25, 2025	*
<b>IETF 124 – North America</b>	TBA	November 1-7, 2025	*
<b>IETF 125 – Asia</b>	TBA	March 14-20, 2026	*

\* Please contact [sponsorship@ietf.org](mailto:sponsorship@ietf.org) if interested in sponsoring a meeting

## IETF Administration LLC

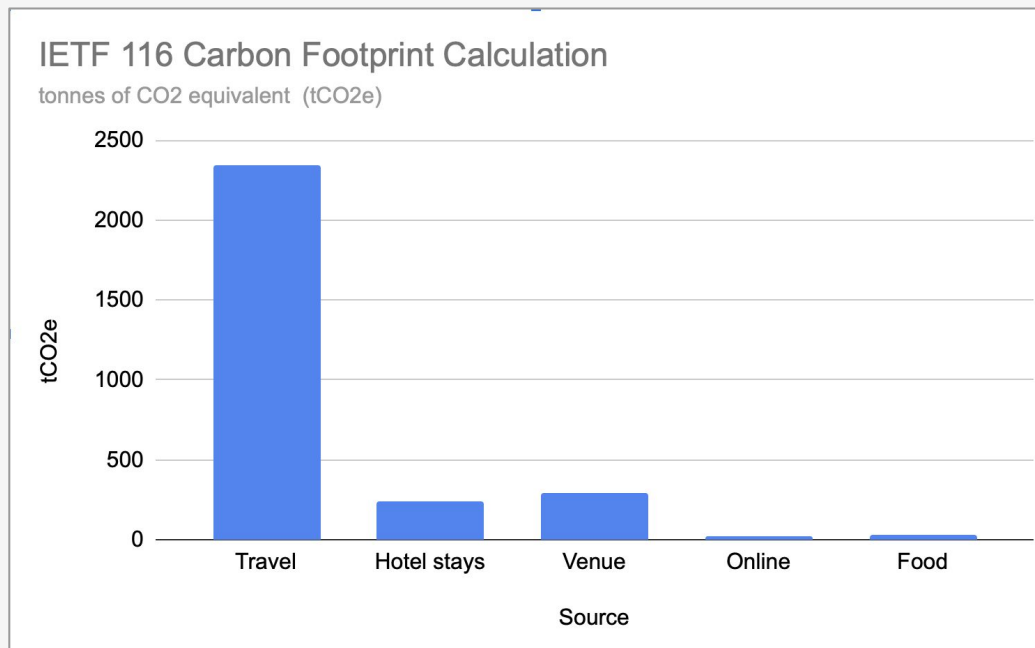
### Long Term Sustainability

- **Goal of Long-Term Financial Sustainability**
  - Main vehicle - IETF Endowment
  - Goal of US\$50M by 2027 - currently ~\$4M
- **Thank You to our Donors**
  - Flagship donors: ARIN, Internet Society, and RIPE NCC
  - Benefactor donor: LACNIC
  - Each donation is matched 2:1 by the Internet Society
- **New Gifts**
  - Afnic has pledged €20,000 to the Endowment
  - Comcast has pledged \$10,000 to the Endowment
  - US\$3,759 from 63 individuals since our last meeting

## IETF Administration LLC

### Towards a net-zero IETF

- **Calculated emissions for IETF 116**  
Meetings, participant travel, day-to-day operations
- **Considering options for footprint offsets**  
Consulting IETF sustainability sponsors
- **Community engagement**  
Side meeting on Thursday (8:30am PDT)



# IETF Administration LLC Report

## Part 2 - LLC Board Update Board Chair - Jason Livingood

IETF 117  
July 2023



Making the Internet work better

## IETF Administration LLC

### Who serves on the Board?



Maja  
Andjelkovic



Lars  
Eggert



Mirjam  
Kühne



Jason  
Livingood,  
Chair



Sean  
Turner,  
Treasurer

## IETF Administration LLC

### Current Board Work

1. Held June 2023 strategic planning retreat
2. Financial focus: fundraising progress & timeliness/accuracy of financial statements
3. Focusing on board continuity planning before end of year

## IETF Administration LLC

### Upcoming Board Meetings

#### Date & Time (UTC)

9 August 2023 - 17:00 UTC	15 November 2023 - 18:00 UTC
13 September 2023 - 17:00 UTC	13 December 2023 - 18:00 UTC
11 October 2023 - 17:00 UTC	10 January 2024 - 18:00 UTC

The Board strives for transparency with the IETF Community. Board meetings are open to observers except for items such as legal, contracts, personnel, and other matters that benefit from confidentiality. Each meeting is divided into four sections: Open; Board and Staff Only; Board and ED Only; Board Only. Our goal is to publish agendas one week or more before each meeting. Minutes of past meeting are also posted on a timely basis.

Schedule of future meetings, past minutes & how to join:

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

# IETF Administration LLC

## 2023 Fiscal Year Operating Budget

April balances, original budget

	YTD Actual	YTD Budget	YTD Variance	Annual Budget
<b>Revenue</b>	\$9,342,517	\$9,106,449	↑ \$236,068	\$13,950,041
<b>Expenses</b>	\$3,831,336	\$4,170,611	↓ (\$339,275)	\$11,287,465
<b>Capital Investment</b>	\$161,996	\$250,800	↓ (\$88,804)	\$752,400
<b>Net Income after capital</b>	\$5,349,185	\$4,685,038	↑ \$664,147	\$1,910,176

### Investments

30 Apr 2023	31 Dec 2022	Change
\$19,937,882	\$18,815,052	↑ \$1,122,830

Notes:

- Registration revenue continues to fluctuate considerably
- Investment portfolio slowing recovering

## IETF Administration LLC

### Contact & Background Information

Email:

- Public feedback to the board only: [LLC-Board@ietf.org](mailto:LLC-Board@ietf.org)
- Discussion list: [admin-discuss@ietf.org](mailto:admin-discuss@ietf.org)
- Executive Director: [exec-director@ietf.org](mailto:exec-director@ietf.org)
- Sponsorship: [sponsorship@ietf.org](mailto:sponsorship@ietf.org)

IETF LLC web pages of interest:

- General: <https://www.ietf.org/about/administration/>
- Board Meetings and Minutes: <https://www.ietf.org/about/administration/llc-board/>
- Financial Statements: <https://www.ietf.org/about/administration/financial-statements/>
- Policies: <https://www.ietf.org/about/administration/policies-procedures/>
- Submit a whistleblower concern: <https://ietf.ethicspoint.com>

# Thank You



Making the Internet work better



# IETF Trust

*Glenn Deen*

# IETF Trustees



Glenn Deen  
Chair



Kathleen Moriarty  
Treasurer



Joel Halpern



Stephan Wenger



Victor Kuarsingh

# IETF Trust Purpose

Manage IP Assets to enable use & protect ownership

Hold IP Assets for IETF, IANA, ICANN, Internet Community

- Domain ownership
  - IETF.ORG, IESG.ORG, IRTF.ORG, IAB.ORG, IANA.ORG,...
- Copyrights
  - IETF+IAB+IRTF+Independ Stream RFCs, Wiki's, Logos, Photos, Videos..
- RFC5378 Granted Rights
  - Contributions to the IETF: Internet Drafts, discussions, etc.
- Trademarks
  - IETF, IANA Marks, additional IETF marks (logo's etc.)
- Software
  - IETF Tools, IETF YANG Catalog



IETF TRUST

Legal Provisions Relating to IETF Documents

Effective Date: March 25, 2015

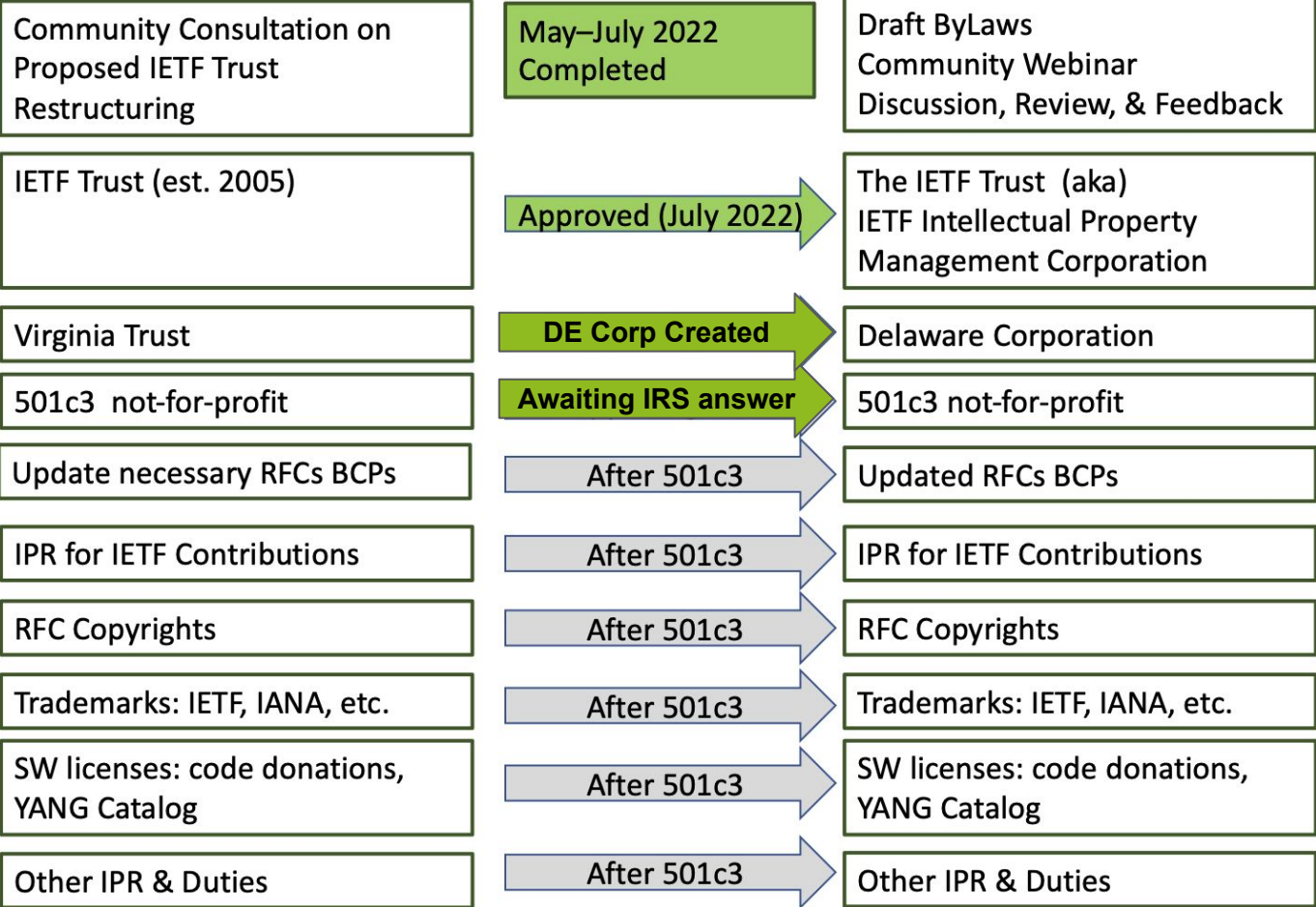
## 1. Background

The IETF Trust was formed on December 15, 2005, for, among other things, the purpose of acquiring, holding, maintaining and licensing certain existing and future intellectual property used in connection with the Internet standards process and its administration, for the advancement of science and technology associated with the Internet and related technology. Accordingly, pursuant to RFC 5378, Contributors grant the IETF Trust certain licenses with respect to their IETF Contributions. In RFC 5377, the IETF Community has provided the IETF Trust with guidance regarding licenses that the IETF Trust should grant to others with respect to such IETF Contributions and IETF Documents. These Legal Provisions describe the rights and licenses that the IETF Trust grants to others with respect to such IETF Contributions and IETF Documents; as well as certain restrictions, limitations and notices relating to IETF Documents. These Legal Provisions also apply to other document streams that have requested that the IETF Trust act as licensing administrator, as described in Section 8 below. Capitalized terms used in these Legal Provisions that are not otherwise defined have the meanings set forth in RFC 5378.

## Updates since IETF 116

- **2 Infringing uses of IETF Logo Trademark resolved**
- **Restructuring Underway (see later slides)**

# IETF Trust Restructuring Update



# Trust Office Hours

**Thursday 9:30-10:30**

**Room: Continental 7**

## Contact Us



EMAIL:  
[TRUSTEES@IETF.ORG](mailto:TRUSTEES@IETF.ORG)



WEB:  
[TRUSTEE.IETF.ORG](http://TRUSTEE.IETF.ORG)



# Moving to WPA2/3

*Warren Kumari*

# Moving from .1X to WPA2/3

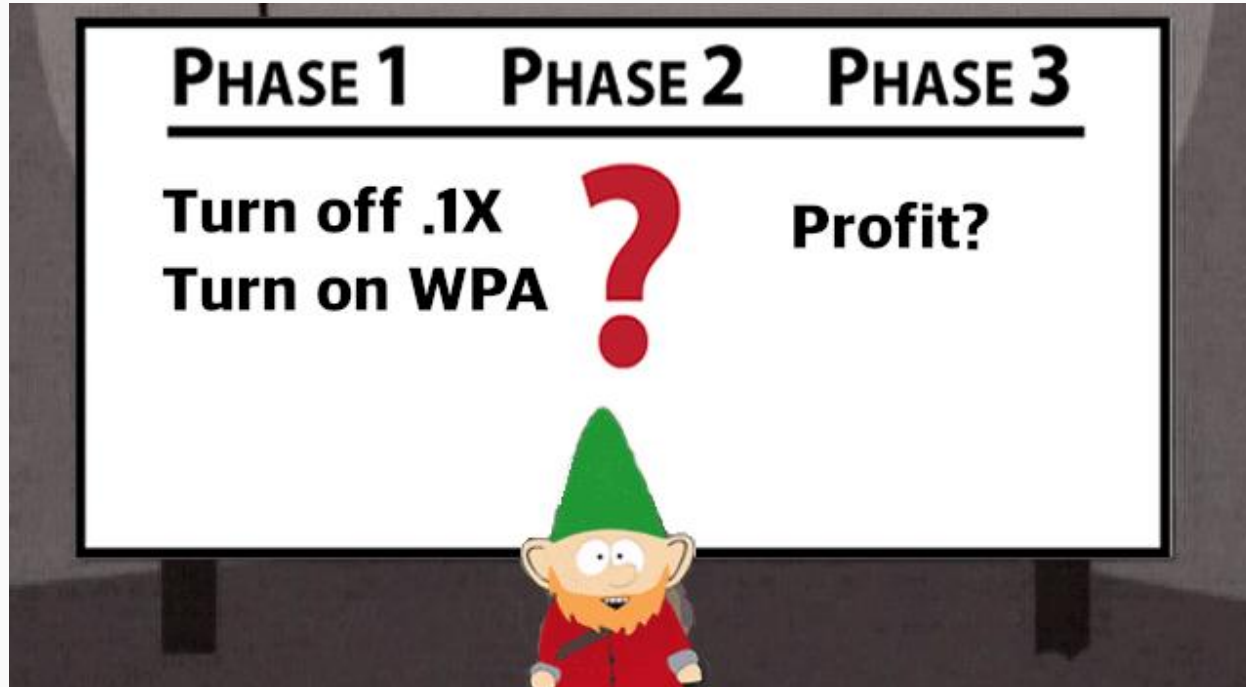
Because it's super good enough...



# Pedant Appeasement

- When I say “802.1X” I mean “WPA2-Enterprise using EAP-Protected EAP (which uses TLS & certificates to create a tunnel to the authentication server), and an inner EAP method of MSCHAPv2 to perform the user authentication against a RADIUS server” ...
  - ... “dot1x” is just easier to say :-)

# The plan! The plan!!!



# Certificates make users sad...

The screenshot shows a macOS system certificate window titled "services.meeting.ietf.org". It displays the certificate's trust status, usage settings for various protocols, and detailed information about the issuer and the certificate itself.

**services.meeting.ietf.org**  
Issued by: Starfield Secure Certificate Authority - G2  
Expired: Tuesday, October 18, 2022 at 7:12:16 AM Eastern Daylight Time  
This certificate is marked as trusted for this account

**Trust**

When using this certificate: Use Custom Settings ?

<b>Secure Sockets Layer (SSL)</b>	no value specified
<b>Secure Mail (S/MIME)</b>	no value specified
<b>Extensible Authentication (EAP)</b>	Always Trust
<b>IP Security (IPsec)</b>	no value specified
<b>Code Signing</b>	no value specified
<b>Time Stamping</b>	no value specified
<b>X.509 Basic Policy</b>	Always Trust

**Details**

<b>Subject Name</b>	
<b>Common Name</b>	services.meeting.ietf.org
<b>Issuer Name</b>	
<b>Country or Region</b>	US
<b>State/Province</b>	Arizona
<b>Locality</b>	Scottsdale
<b>Organization</b>	Starfield Technologies, Inc.
<b>Organizational Unit</b>	<a href="http://certs.starfieldtech.com/repository/">http://certs.starfieldtech.com/repository/</a>
<b>Common Name</b>	Starfield Secure Certificate Authority - G2
<b>Serial Number</b>	6552506729141112520
<b>Version</b>	3
<b>Signature Algorithm</b>	SHA-256 with RSA Encryption ( 1.2.840.113549.1.1.11 )
<b>Parameters</b>	None
<b>Not Valid Before</b>	Thursday, September 16, 2021 at 7:12:16 AM Eastern Daylight Time
<b>Not Valid After</b>	Tuesday, October 18, 2022 at 7:12:16 AM Eastern Daylight Time

# If it ain't broke, why are you touching it?!

- **People blindly trust the new certificate, negating any security benefit**
  - We used to have <https://802.1x-config.org/?idp=137&profile=101>, but:
    - 1: No one used it...
    - 2: ... and it's gone!
  - Cert fingerprint is posted on the meeting page, but no one uses it[0]
  - Approximately 1 in 3 meetings the cert changes (1 year validity, 3 meetings)
- **No authority to install certificates on managed devices**
- **Complexity of cert installation on various OS**
- **Proof? Helpdesk gets 2-3 tickets per day related to this**

[0]:For at least one meeting, the fingerprint was wrong, and no-one noticed!

# Android Configuration

## A Note For Android Users

Here are the relevant settings for connecting Android devices to the secure ietf networks.

- Network name (e.g. ietf): **ietf**
- Security: **WPA/WPA2-Enterprise**
- EAP Method: **PEAP**
- Phase 2 authentication: **MSCHAPv2**
- CA Certificate: **Use system certificates**
- **Do not verify**
- Domain: **services.meeting.ietf.org**
- Identity: **ietf**
- Password: **ietf**

# If this is so bad, why did we start?!

- **WEP -> WPA -> WPA2 -> WPA3...**
  - NOC team believes WPA3 is super good enough, and WPA2 is good enough.
  - We believe (perhaps wrongly!) that deployment of encrypted Layer-3 (e.g TLS) has reached the point that if one is breached, another is still in place.
    - E.g: people are comfortable using ietf-hotel and coffee shops, etc.
- **Evil Twin Attack**
  - ... but no-one checks the certs anyway, so .1X didn't fix that.
- **Potential flexibility**
  - Ability to put people in special networks based on their credentials.
  - Never used this, so... ˘\\_(ツ)\_/˘

# FAQ

- If everyone uses the same WPA2 PSK, can't anyone sniff the traffic?
  - Nope. PSK is used to derive Pairwise Transport Keys. This is (conceptually) similar to how we all use "ietf"/"ietf" currently.
- ... but someone who can see the 4-way handshake could derive the PTK! Mwahahaha!
  - Yes. A local attacker who can see both sides can indeed derive the WPA2 PTK - but is this really a threat you are concerned about? These days, almost all networks are either open (the airport / coffee shop) or use WPA. Also, see "ietf-hotel". This is why we have TLS and other layers of security
- Why don't you only do WPA3? It's the new hotness!
  - Yes, yes it is. Unfortunately many devices don't support it yet. If yours does, yay, you'll use the WPA3 capability. If yours doesn't, WPA2 is good 'nuff.

# Feedback...

We are likely out of time, so let's take this offline...



In Memoriam

John Leslie



# In Memoriam - Al Morton

Alfred Channon Morton, Jr., died on Friday, June 9, 2023, in Chicago, IL. Al was a long time resident of the Jersey Shore, the son of Alfred Channon Morton Sr. and Margaret Cox Morton. He grew up in Sea Girt, lived in Oceanport for 40 years, before moving to Chicago with his wife in 2020.

A 1973 graduate of Manasquan High School, Al received both his BSEE and MSEE from Monmouth College. He worked for Computer Sciences Corporation at Fort Monmouth's Satellite Communications Agency and then went to work directly with SATCOMA before beginning an almost 40 year career at Bell Labs/AT&T. In that capacity, Al was a proud contributor to many important internet standards through the IETF and ITU. He was the author of more than 32 IETF RFCs, several Linux Foundation projects, and the holder of several patents.

In his private life, Al loved traveling, movies, and making and enjoying music with his many friends and family in New Jersey, Chicago, and wherever he traveled. He was a particular fan of the many young singer/songwriters who performed in summer concerts every year at the shore.

Al is survived by his wife Louise Dewar, his daughter Margaret, his twin brother John Morton and John's wife Altha, and cousin Jennifer Cox. In addition, he will be missed by sisters and brothers by marriage, nieces and nephews, great nieces and nephews, and hundreds of friends from all over the world who thought of him as a brother.





# Internet Engineering Steering Group (IESG)

*Open Microphone Session*

# IESG Open Mic

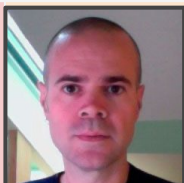


## ART



Murray

## RTG



John

## TSV



Martin

## INT



Erik

## OPS



Rob



Francesca



Andrew



Zahed



Éric



Warren



Lars



Jim



Roman



Paul



Mirja  
*ex-officio*  
IAB Chair

## GEN

## SEC



# Internet Architecture Board (IAB)

*Open Microphone Session*

# IAB Open Mic



Dhruv



Lars



Wes



Cullen



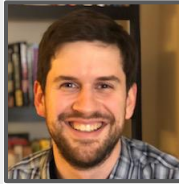
Mallory



Suresh



Mirja  
*IAB Chair*



Tommy



Alvaro



David



Chris



Qin



Jiankang



Colin  
*Ex-officio  
IRTF  
Chair*



# IETF Administration LLC

*Open Microphone Session*

# LLC Open Mic



Maja  
Andjelkovic



Lars  
Eggert



Mirjam  
Kuehne

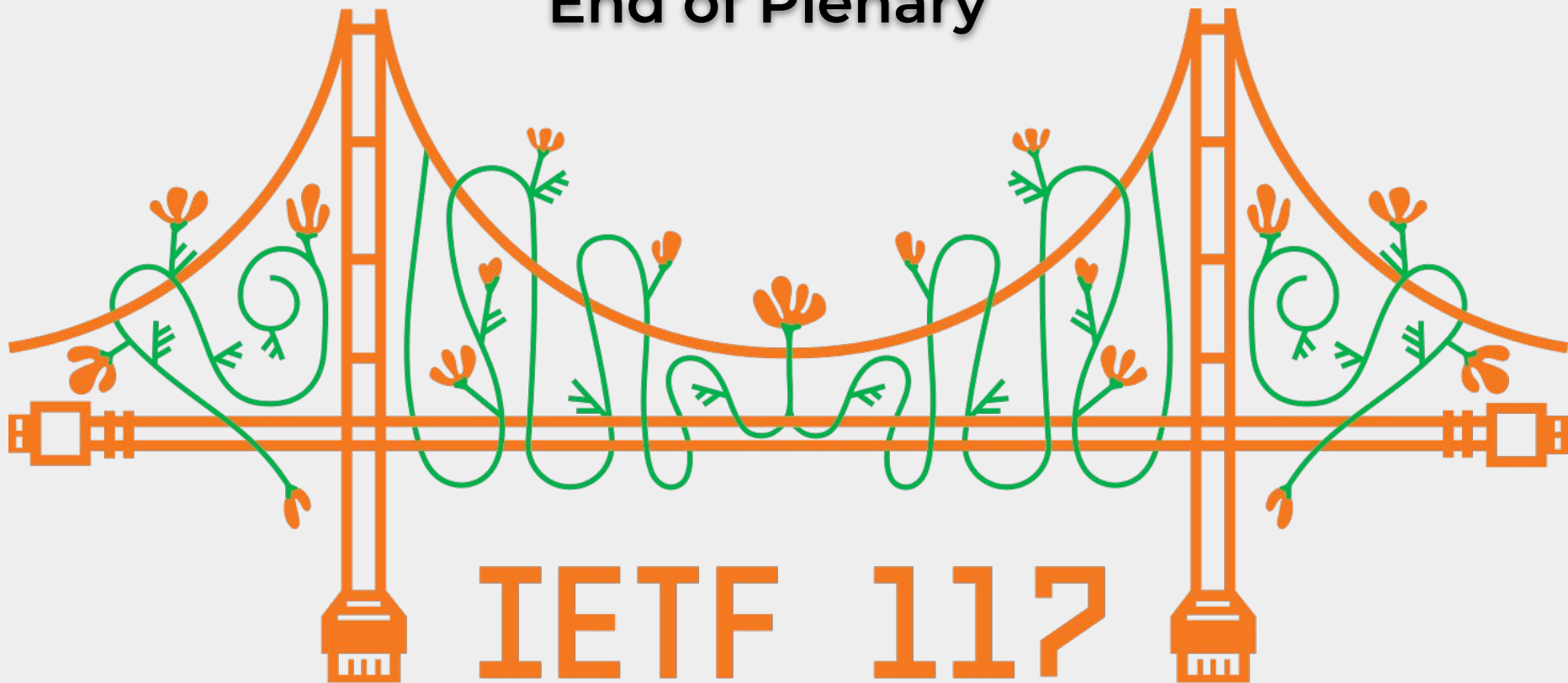


Jason  
Livingood,  
Chair



Sean  
Turner,  
Treasurer

# End of Plenary



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