



I E T F®

IETF 113 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 113 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

- **Welcome**
- **Host Presentation**
- **Brief Updates**
 - **IETF**
 - **Tools Team**
 - **IAB**
 - **IRTF**
 - **IETF LLC**
 - **Trust**
- **Recognition**
- **In Memoriam**
- **Open Mic Sessions**

Lars Eggert

Yuefeng Qiu

Lars Eggert

Robert Sparks

Mirja Kühlewind

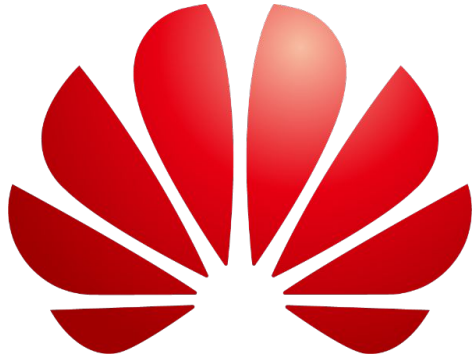
Colin Perkins

Jay Daley, Jason Livingood

Glenn Deen

IETF LLC, IESG, IAB

Thank you to our meeting host!



HUAWEI

Thank you to everyone who
helped make this meeting happen!

Secretariat

Meetecho

NOC

LLC

Tools Team

Hackathon Support

IETF Chair Report

Lars Eggert

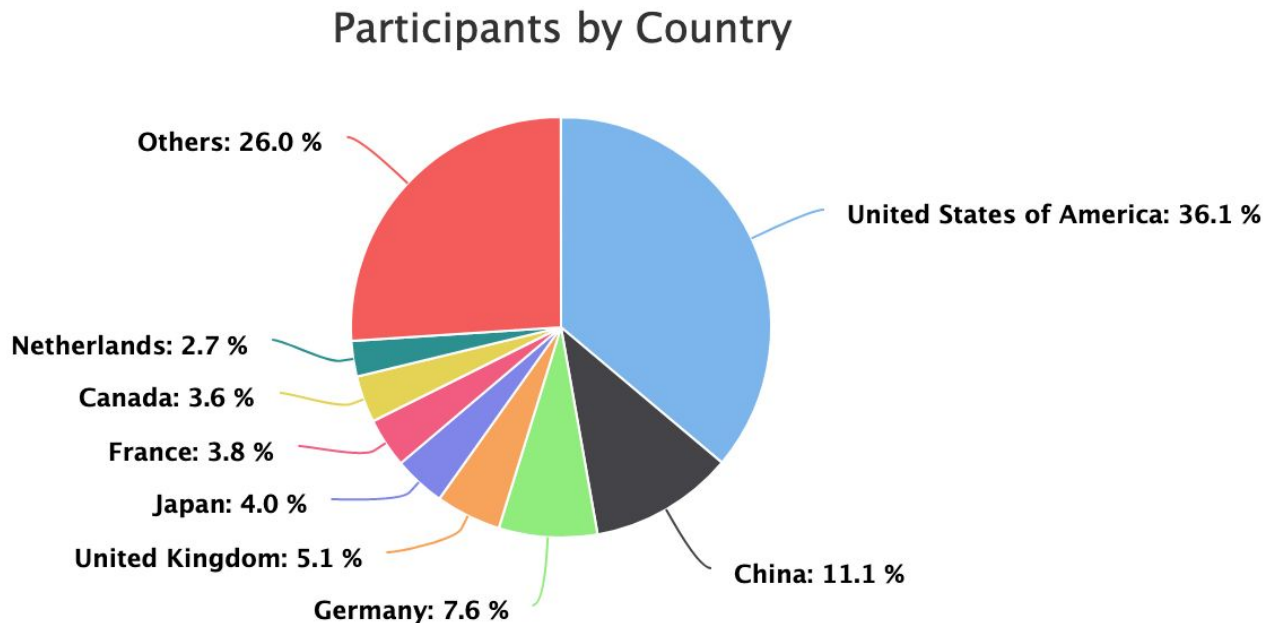
IETF Chair Report

- Participant Statistics
- Planning for Future Meetings
- Currently Running Experiments
- Topics Covered Online
- Tools Team Update

IETF 113 Participant Statistics as of 2022-03-23

- **1387** registrations
 - **312** on-site
 - **1082** remote
- **269** fee waivers
- **231** Hackathon registrations
 - **134** on-site
 - **97** remote
 - **22** projects

Detailed attendance stats will be posted after the meeting

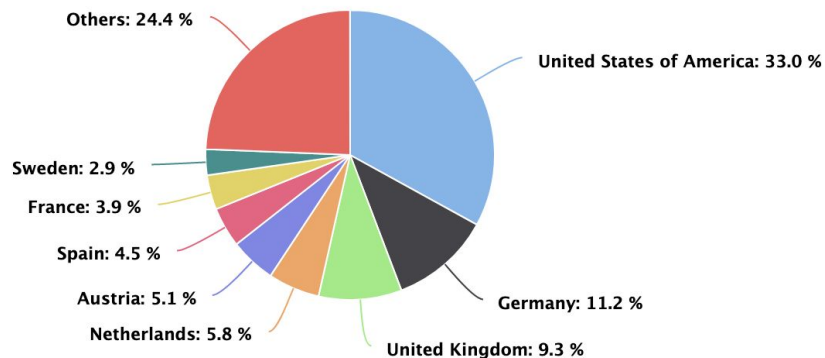


IETF 113 Participant Statistics as of 2022-03-23

Onsite

Total 312

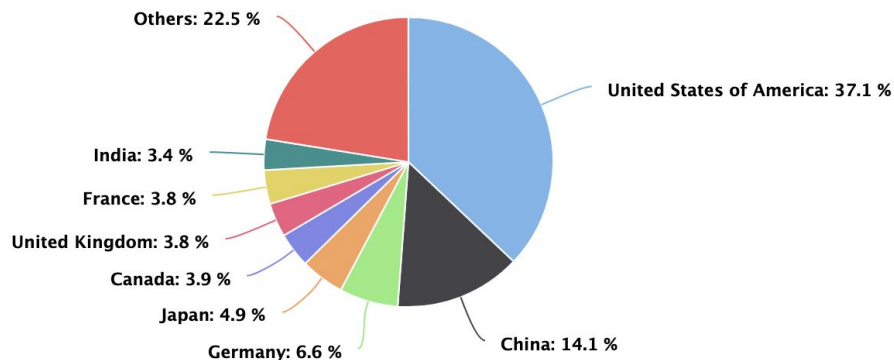
Participants by Country



Remote

Total 1082

Participants by Country



Planning for Future Meetings

Tools feedback

Reporting issues

- support@ietf.org (ticket queue)

Feature requests

- tools-discuss@ietf.org (mailing list)

Survey

Please fill out the IETF 113 meeting survey when it opens!

Stay Home Meet Only Online (SHMOO) working group

Develops guidelines on:

- Meeting fees
- Async meetings
- Meeting cadence and length
- Hackathon
- Cancellation considerations ✓
- Show-of-hands tool

Rechartering!

List: manycouches@ietf.org

Currently running experiments and planned actions

- Public archive of AUTH48 conversations
- BOF deadline schedule experiment
- Creation of an "important-news" announcement list

Topics Covered Online

- **0** Appeals since IETF 112
- **1** IESG Statement since IETF 112
 - [Handling Ballot Positions](#) (2022-01-21)
- 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/>

Tools Team Report

Robert Sparks

Move to GitHub



TOOLS TEAM

 **datatracker**

Public



The day-to-day front-end to the IETF database for people who work on IETF standards.

 Python  13  11

 **xml2rfc**

Public



Generate RFCs and IETF drafts from document source in XML according to the IETF xml2rfc v2 and v3 vocabularies

 HTML  8  4

 **mailarch**

Public



IETF Mail List Archives

 Python  2  2

<https://github.com/ietf-tools>

How to Contribute



TOOLS TEAM

- Bug Reports and Feature Requests
 - Raise an issue or start a discussion at GitHub
 - Send email to tools-discuss@ietf.org
- Code
 - <https://github.com/ietf-tools/.github/blob/main/CONTRIBUTING.md>
 - Join our Code Sprints
- Vision
 - Tools Team meetings are on the Upcoming Meetings calendar
 - Participate in Tools Workshops
 - <https://github.com/ietf-tools/tools-workshops>

Author Support



TOOLS TEAM

- Author Resource Site: authors.ietf.org
 - Documentation
 - Templates
 - Examples
- Online Conversion and Validation: author-tools.ietf.org
 - RFCXML or Markdown to rendered text, html, and pdf
 - Text to RFCXML
 - idnits, iddiff
 - All services also available through an API
- Coming soon: bibxml.ietf.org



Internet Architecture Board (IAB)

Mirja Kühlewind



IAB Report IETF-113 (Vienna)

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

<https://datatracker.ietf.org/meeting/113/materials/slides-113-ietf-sessa-iab-report-to-the-community-for-ietf-113>

The IABOpen meeting will be tomorrow:

Thursday 13:00-14:00 UTC+1 (Afternoon Session I)

covering updates on documents, programs, and liaisons as well as the **Analyzing IETF Data (AID) workshop report & a discussion on centralization.**

For feedback or questions, feel free to send mail to iab@iab.org or iab-chair@iab.org!

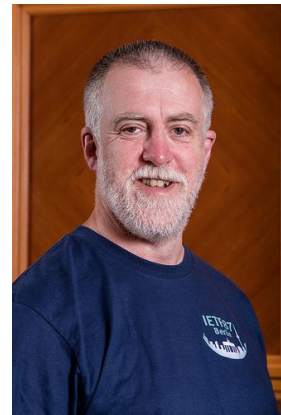
New Independent Submission Editor (ISE)

- The IAB appointed Eliot Lear as the new Independent Submission Editor (ISE).
- There was a very good set of candidates for this position and the IAB would also like to thank all volunteers that were nominated and willing to serve in this role!



Welcome Eliot and thanks for serving the community in this role!

**Thanks (again) Adrian for your service
and your enthusiastic engagement in this role,
thereby supporting the Internet community
to ensure that all voices can be heard!**



RFC Editor Model v3 is ready to be approved!

- The RFC Editor Future Development Program concluded its work on draft-iab-rfcedp-rfced-model beginning of February.
- A four weeks IAB community feedback call was concluded on March 7.
- The IAB reviewed draft-iab-rfcedp-rfced-model-12 during their call on March 9.
- draft-iab-rfcedp-rfced-model-13 was published recently to incorporate remaining community comments and other editorial changes.
- The final version of the new RFC Editor Model (Version 3) will be approved and published together with three related documents in the the IETF stream (IESG telechat March 10):
 - draft-carpenter-rfced-iab-charter (IAB Charter Update for RFC Editor Model)
 - This document is in a 2nd IETF Last Call due to non-editorial changes past IESG Review; also needs endorsement by the ISOC Board
 - draft-rsalz-2028bis (Entities Involved in the IETF Standards Process)
 - draft-rosen-rfcedp-update-2026 (RFC Series Responsibility Change)

Thanks to everybody in the program, everybody who reviewed the draft, the editor Peter Saint-Andre, and the chairs Eliot Lear and Brian Rosen!

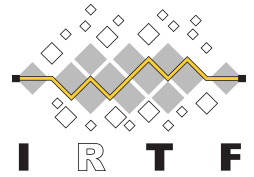


Appointments and Open Calls

- The IAB selected a candidate Internet Society Board of Trustees. The name will be released in late April when the full slate of Trustees has been chosen.
- The IAB re-appointed **Petr Špaček** to the ICANN Technical Liaison Group. Thanks for serving!
- The IAB is currently looking for a qualified volunteer to serve on the **ICANN Root Server System Governance Working Group (GWG)**. Deadline is **Monday, 2022-04-04**.
 - Thanks Ted Hardie for your service!
- The IAB and IESG issued a joint call for nominations/volunteers for the **RSWG Chairs**. Deadline is **Monday, 2022-04-18**.

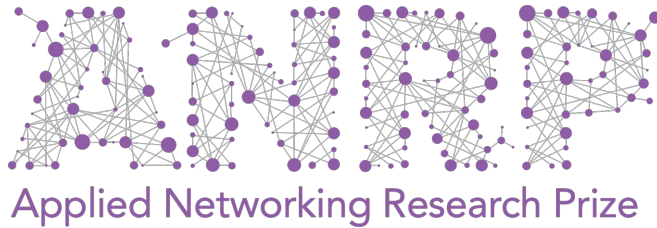
**Please volunteer or nominate your favourite candidate
by sending mail to execd@iab.org!**

We would really like to see more diversity in the candidate pools!

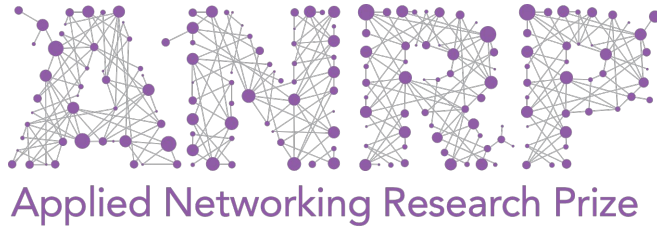


Internet Research Task Force (IRTF)

Colin Perkins



- 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 award talks for IETF 113 yesterday:
 - **Sangeetha Abdu Jyothi** for her work on the resilience of the Internet infrastructure to solar superstorms
 - **Bruce Spang** for his work showing that networking algorithm A/B tests can be biased because of network congestion
- Talks available at <https://irtf.org/anrp/> and the IETF Channel on YouTube

Applied Networking Research Workshop

- ACM/IRTF Applied Networking Research Workshop (ANRW) 2022 will co-locate with IETF 114 in July 2022
- TPC chairs: Taejoong (Tijay) Chung and Marwan Fayed
- Paper submissions due 27 April 2022
- <https://irtf.org/anrw/2022/>
- Forum for researchers, vendors, operators, and the Internet standards community to present and discuss emerging results in applied networking research



IETF Administration LLC
Jay Daley, Jason Livingood

IETF Administration LLC Report

Part 1 - Operations IETF Executive Director

**IETF 113
March 2022**



Making the Internet work better

IETF Administration LLC

Thank you to the IETF 113 Host



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IETF Administration LLC

Thank you to the IETF 113 sponsors

Silver Sponsor

Diversity & Inclusivity



Bronze Sponsors

Diversity & Inclusivity



Running Code



Connectivity Sponsor and Local Supporter



Codesprint

Jari Arkko
Ryan Cross
Lars Eggert
Nicolas Giard
Russ Housley
Tero Kivinen
Kesara Rathnayake
Jennifer Richards
Robert Sparks
Éric Vyncke
Greg Wood
Peter Yee

NOC

Bill Fenner (Arista)
Bill Jensen (University of Wisconsin–Madison)
Clemens Schrimpe
Hans Kuhn (NSRC)
Hirochika Asai (Preferred Networks/WIDE)
Joe Clarke (Cisco)
Karen O'Donoghue (ISOC)
Lucy Lynch
Rob Austein (Arrcus/DRL)
Warren Kumari (Google)

Secretariat

Alexa Morris
Amy Vezza
Cindy Morgan
Glen Barney
Jasmine Magallanes
Jenny Bui
Laura Nugent
Liz Flynn
Maddy Master
Ryan Cross
Stephanie McCammon
Tina Dang

NOC

Con Reilly
Nick Kukich
Rick Alfvin
Stetson Alfvin
Sean Croghan

Meetecho

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

Tools

Jennifer Richards
Margaret Cullen
Mark Donnelly
Robert Sparks

LLC

Greg Wood
Lee-Berkeley Shaw
Kesara Rathnayake
Nick Giard

IETF 114 Philadelphia

23-29 July 2022



Sponsorship opportunities available!
Contact: sponsorship@ietf.org



IETF Administration LLC

Future meeting locations and venues

MEETING LOCATION	VENUE	DATES	HOSTS
IETF 114 – Philadelphia	Philadelphia 201 Hotel	July 23 – 29, 2022	Comcast/NBCUniversal
IETF 115 – London	Hilton London Metropole	November 5-11, 2022	*
IETF 116 – Asia	TBA	March 25-31, 2023	*
IETF 117 – San Francisco	Hilton Union Square	July 22-28, 2023	*
IETF 118 – Prague	Hilton Prague	November 4-10, 2023	*
IETF 119 - Asia	TBA	March 16-22, 2024	*
IETF 120 - Vancouver	Hyatt Regency Vancouver	July 20-26, 2024	*
IETF 121 - TBA	TBA	November 2-8, 2024	*

* Please contact sponsorship@ietf.org if interested in sponsoring a meeting

IETF Administration LLC

Registration numbers

Ticket Type	Onsite Registrations	Remote Registrations	Budget
Early Bird	154	378	300
Standard	59	157	100
Late	14	88	100
Student	25	37	20
One-day	17	125	20
Waivers	-	269	-
TOTAL	269	1,054	1,040

IETF Administration LLC Staff



Jay Daley
IETF Executive
Director



Greg Wood
Director of
Communications
and Operations



Lee-Berkeley
Shaw
Director of
Development



Kesara
Rathnayake
Senior Software
Development
Engineer



Nick Giard
Senior Software
Developer

IETF Administration LLC

IETF Endowment

- **IETF Endowment purpose and goals**

- Created to support the IETF and its activities
 - Financial independence for IETF, long-term sustainability
 - Diversity of income - not reliant on any single funder
- Goal of US\$50M by 2027

- **Matching Fund Opportunity**

- In 2021, Internet Society pledged up to US\$30M in matching funds for gifts made to the IETF Endowment
 - 2:1 match on first US\$12M; 1:1 match on subsequent US\$6M
- 2021 Donors Include: RIPE NCC (€100k), LACNIC (US\$100k), Google (US\$20K), and over a dozen individual donations
 - Raised US\$239,550 which, with match, is US\$718,650 for IETF Endowment

- For more information about the IETF Endowment, please contact Director of Development Lee-Berkeley Shaw at LBShaw@staff.ietf.org

IETF Administration LLC Report

Part 2 - LLC Board Update Board Chair - Jason Livingood

**IETF 113
March 2022**



Making the Internet work better

IETF Administration LLC

Who serves on the Board?



Maja
Andjelkovic



Lars
Eggert



Jason
Livingood,
Chair



Sean
Turner,
Treasurer



Peter
Van Roste

IETF Administration LLC

Upcoming Board Meetings

Date & Time (UTC)	
14 April 2022 - 19:00 UTC	14 July 2022 - 19:00 UTC
12 May 2022 - 19:00 UTC	11 August 2022 - 19:00 UTC
9 June 2022 - 19:00 UTC	8 September 2022 - 19:00 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/meeting-info>

IETF Administration LLC

Current Board Work

1. Made changes to the investment policy following recommendations from Goldman Sachs
2. Worked with the Executive Director, IESG, IAB, IRTF, NOC team, partners/suppliers, and others to execute our first hybrid meeting (this meeting)
3. Assessing potential policy needs related to anti-trust risks & issues
4. Making legal & benefits-related arrangements for shift of employment location of the Executive Director from New Zealand to the United Kingdom
5. Planning annual strategy planning retreat
6. Increasing focus on fundraising progress

IETF Administration LLC

Previous Fiscal Year Operating Budget

December balances, original budget

	YTD Actual	YTD Budget	YTD Variance %	Annual Budget
Revenue	\$4,269,179	\$10,594,377	↓ (40%) ¹	\$10,594,377
Expenses	\$6,800,067	\$8,989,827	↓ 24%	\$8,989,827
Capital Investment	\$207,048 ²	\$585,000	↓ 65%	\$585,000
Net Income after capital	(\$2,737,937)	\$1,019,550	↓ (268%)	\$1,019,550

Investments

31 Dec 2021	31 Dec 2020	Change
\$21,068,692	\$19,301,645	↑ \$1,767,047

Notes:

¹ ISOC funding for 2021 was recognised in 2020.

² Capital is retrospectively calculated at end of year

IETF Administration LLC

Contact & Background Information

- Email:
 - Public feedback to the board only: LLC-Board@ietf.org
 - Discussion list: admin-discuss@ietf.org
 - Executive Director: exec-director@ietf.org
 - Sponsorship: sponsorship@ietf.org
- IETF LLC web pages of interest:
 - General: <https://www.ietf.org/about/administration/>
 - Future Meetings: <https://www.ietf.org/about/administration/llc-board/>
 - Past Meeting Minutes: <https://www.ietf.org/about/administration/llc-board/minutes/>
 - 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 Trust

March 2022

IETF Trustees



Glenn Deen
Chair



Kathleen Moriarty
Treasurer



Joel Halpern



John Levine



Stephan Wenger

IETF Trust Purpose

Enable usage of IP Assets while protecting ownership

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

Domain ownership

IETF.ORG, IESG.ORG, IRTF.ORG, IAB.ORG, IANA.ORG,...

Copyrights

IETF RFC's, Logos, Photos, Videos

Contributions to the IETF: Internet Drafts, discussions, etc.

Trademarks

IETF, IANA Marks, additional IETF marks (logos etc.)

Software

IETF Tools, IETF YANG Catalog



I E T F[®]

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.

Trust Structure

- Commonwealth of Virginia Trust
- IRS 501c3 Non-Profit
- Independent from ISOC and IETF Administration LLC
- Website: trustee.ietf.org
- 5 Trustees
 - IETF Nomcom 3, IESG 1, ISOC BoT 1
 - No financial support (travel or compensation)
 - Knowledge of IP law useful
 - Trustees are personally legally responsible/owners
- Annual budget ~100K
 - Legal & Administration Services, TM Registrations,
 - Document Storage (IETF bluesheets, other materials)
 - Domain Registrations, Trustee Insurance

Trust Insurance Concerns

- The IETF Trust carries \$1 million Professional Liability and \$3 million Directors & Officers insurance
- Levels are out of date having not kept up with inflation or risk levels
- Trust has tried to increase these amounts to appropriate levels
 - Current insurance provider won't increase coverage limits
 - Very few companies providing insurance to trusts
- Quite possible that coverage may one day become unavailable from any source

Impacts

- Without adequate insurance the Trust and Trustees face a significant risk
- Without any insurance the Trust would be very high risk
- Trustees have personal liability

Discussion

- Insurance companies don't like trusts due to their extensive use in family real-estate/wealth holding and tax optimization strategies
- Insurance Companies are comfortable with not-for-profit corporations
 - Large marketplace of insurance providers
 - Pricing more competitive due to large marketplace

Trustee Personal Liability

Trustee Personal Liability

The IETF Trust is a Virginia Common Law Trust

- ❖ Trustees aren't just managing officers – they are the owners of the Trust & Trust assets
- ❖ Trademark (TM) Registrations are a good example
 - Individual Trustees are listed along with the IETF Trust in registrations as the owners
 - Some TM Registrations don't allow trusts to be listed leaving IETF Trustees as the direct owners
- ❖ IETF Trust's legal liabilities can carry over into individual Trustees legal liabilities
- ❖ Trustees sign IETF Trustee Agreement acknowledging role, responsibilities and risk when joining
 - This is one agreement you really want to read before signing

Impact

- Many potential trustees have avoided being IETF Trustees due to the required personal risk
- Trustees take on direct personal liability as owners of IETF Trust

Discussion

- Corporations directly own IP Assets and can register them worldwide
- IETF Trustees act, and community expectations, are very much like corporate directors
 - They oversee but do not personally own
- Corporate directors have better legal separation protections from personal liability

IETF Trust Restructuring Exploration

Exploring restructuring IETF Trust to a not-for-profit corporation

What would change:

- All IETF Trusts assets would transfer
- All current licenses would transfer
- Trustees would no longer be owners – demoted to directors
- Would move from Virginia to Delaware (same place as IETF LLC)

What would be the same:

- Role & Service to IETF & Internet Communities
- All Licenses terms would stay the same
- Would stay non-profit (501c3) entity
- Selection of Directors would follow process per RFC 8714
 - 5 Directors: 1 from IESG, 1 from ISOC, 3 from IETF nomcom

Why not fold under IETF LLC?

IETF Administration LLC is a disregarded entity of ISOC

- ISOC is the ultimate owner of the IETF LLC
- ISOC is also the owner of PIR (Public Interest Registry)

IETF Trust 2005 founding agreement signed by CNRI & ISOC

(source: <https://trustee.ietf.org/documents/founding-documents>)

- Restricts IETF Trust's assets going to either CNRI or ISOC upon dissolution
- **Folding under IETF LLC would be putting Trust assets under ISOC**

IANA 2016 Transition transferred IANA assets to IETF Trust

(source: <https://trustee.ietf.org/iana-ipr>)

- IETF Trust chosen as an independent party to hold & protect IANA assets
- Expanded IETF Trust's community to include ICANN + Names & Numbers
- **Folding under IETF LLC would put IANA assets under ISOC a Registry Op.**

IETF Trustees believe that folding under IETF Administration LLC would break agreements & expectations with the community and with past IP contributors

Restructuring Consultation

- IETF Trustees are going to hold a consultation with the Trust communities
 - IETF Community
 - ICANN
 - RIRs Community
- Want to hear to community thoughts
 - Mailing list: tlp-interest@ietf.org
- Will hold a webinar in April 2022 for discussion

Contact us



EMAIL:
TRUSTEES@IETF.ORG



WEB:
TRUSTEE.IETF.ORG

Recognition

Thank you to outgoing leadership

Outgoing IAB members - Thank you!



Ben Campbell



Jared Mauch

Outgoing IESG members - Thank you!



Benjamin Kaduk
Security Area



Martin Vigoureux
Routing Area

In Memoriam

Susan R. Harris

June 6, 1946 - March 6, 2022



IETF Administration LLC

Open Microphone Session

LLC Open Mic



Maja
Andjelkovic



Lars
Eggert



Jason
Livingood,
Chair



Sean
Turner,
Treasurer



Peter
Van Roste

Internet Engineering Steering Group (IESG)

Open Microphone Session

IESG Open Mic

ART



Murray



Francesca



Lars

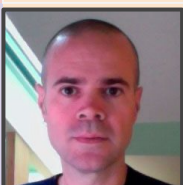
RTG



Martin
outgoing



Alvaro



John

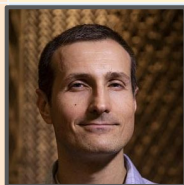
TSV



Martin



Zahed



Roman

INT



Erik



Éric



Benjamin
outgoing

OPS



Rob



Warren



Mirja
*ex-officio
IAB Chair*

GEN



Andrew
incoming



Paul
incoming

SEC



Internet Architecture Board (IAB)

Open Microphone Session

IAB Open Mic



Jari



Ben
Outgoing



Deborah



Lars



Wes



Cullen



Mirja
IAB Chair



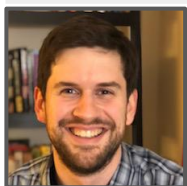
Zhenbin



Jared
Outgoing



David



Tommy



Russ



Jiankang



Colin
*ex-officio
IRTF Chair*



John
*Temporary
RFC Series
Project
Manager*



Mallory
Incoming



Qin
Incoming



I E T F[®]

END OF IETF 113 PLENARY



IETF Trust

Open Microphone Session

IETF Trust Open Mic



**Glenn Deen,
Chair**



**Kathleen
Moriarty,
Treasurer**



Joel Halpern



John Levine



**Stephan
Wenger**