PLEASE WEAR A MASK

- Masks MUST be worn in meeting rooms and are RECOMMENDED for common areas but NOT REQUIRED.
- In meeting rooms, masks MAY briefly be removed for eating and drinking, but that cannot be an excuse to leave them off for long periods.
- In meeting rooms, active speakers, defined as those who are at the front of the room presenting or speaking in the mic queue, MAY remove their mask while speaking.
- No exemptions for mask wearing, medical or otherwise, will be allowed.
- Masks MUST be equivalent to N95/FFP2 or better, and free masks are available in the IETF registration area.
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 25](https://www.ietf.org/standards/bcp/bcp25.html) (Working Group processes)
- [BCP 25](https://www.ietf.org/standards/bcp/bcp25.html) (Anti-Harassment Procedures)
- [BCP 54](https://www.ietf.org/standards/bcp/bcp54.html) (Code of Conduct)
- [BCP 78](https://www.ietf.org/standards/bcp/bcp78.html) (Copyright)
- [BCP 79](https://www.ietf.org/standards/bcp/bcp79.html) (Patents, Participation)
- [https://www.ietf.org/privacy-policy/](https://www.ietf.org/privacy-policy/) (Privacy Policy)
IETF 115 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
  Lars Eggert

● Host Presentation
  Ted Hardie

● Brief Updates
  ○ IETF Chair & IESG
  Lars Eggert
  ○ IAB
  Mirja Kühlewind
  ○ IRTF
  Colin Perkins
  ○ NomCom
  Rich Salz
  ○ IETF Administration LLC
  Jay Daley, Jason Livingood
  ○ RSCE Introduction
  Alexis Rossi
  ○ Trust
  Glenn Deen

● IETF 116 Preview
  Osamu Nakamura & Hirochika Asai

● Jonathan B. Postel Award
  Andrew Sullivan

● Open Mic Sessions
  IAB, IETF LLC, IESG
Thank you to our meeting host!
Project Callisto
Extra-terrestrial collaboration with WebRTC and AV1

Kevin McMenamy and Fredrik Pihl
(with credit to the original authors Thomas Davies, Dmitriy Sychov and Alex Shaw)

Thursday, November 10, 2022, 11:45-12:45, Richmond 4
Thank you to everyone who helped make this meeting happen!
IETF Chair & IESG Report

Lars Eggert
IETF Chair Report

- Participant Statistics
- Reported COVID Cases at IETF
- Planning for Future Meetings
- Currently Running Experiments
- Topics Covered Online
IETF 115 Participant Statistics as of 2022-11-09

- **1585 registrations**
  - **847** on-site
  - **738** remote
- **Fee waivers - Remote**
  - **287** granted
  - **235** used
- **Fee waivers - Onsite**
  - IETF: **18** requests, **11** granted
  - IRTF: **3** requests, **2** granted
- **452** Hackathon registrations
  - **350** on-site
  - **102** remote
  - **39** projects

Detailed attendance stats will be posted after the meeting.
IETF 115 Participant Statistics as of 2022-11-09

**Onsite**
- USA 32.7%
- Others 22.4%
- Japan 3.4%
- Netherlands 3.5%
- France 3.9%
- Canada 3.9%
- South Korea 4.0%
- Germany 7.4%
- United Kingdom 18.7%

**Remote**
- USA 37.4%
- Others 24.0%
- France 1.9%
- Canada 2.6%
- United Kingdom 3.0%
- Japan 3.7%
- India 4.3%
- Germany 7.1%
- China 18.8%
Reported COVID Cases at IETF

- IETF 115: 4 cases (0.50% of checked-in onsite attendees)
  - Approximately 840 free COVID tests have been picked up by IETF attendees so far
- IETF 114: 17 cases (2.73% of checked-in onsite attendees), including those who reported shortly after returning home
- IETF 113: 9 cases (2.87% of checked-in onsite attendees), including those who reported shortly after returning home

Free tests are available in the IETF registration area. If you test positive, please send email to support@ietf.org.
Currently running experiments

- Second-year extension of RFC 8989 NomCom eligibility experiment (ELEGY WG chartered to produce permanent new criteria)
IESG Announcements

2022-09-09  New version of the "Tao of the IETF" published
2022-09-09  Call for nominations: IESG appointment to the IETF Trust
2022-10-14  Call for Feedback: IESG appointment to the IETF Trust
2022-10-29  BCP 83 PR-Action Approved: Dan Harkins
Topics Covered Online

- 0 Appeals since IETF 114
- 1 IESG Statement since IETF 114:
  - Statement on Restricting Access to IETF IT Systems

- 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/
Become a Directorate Reviewer!

Broad review make our documents better

Directorate reviews are an invaluable part of this

Many directorates have opportunities for additional people to join and become reviewers

Talk to your AD and/or the leaders of the directorates

(We have some new directorates spinning up, too)

You can define your review cadence/availability
Kids Welcome!

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

Please do plan to use this service
Internet Architecture Board (IAB)

Mirja Kühlewind
IAB Report IETF-115 (London)

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


Recent/ongoing workshops:

- **IAB Workshop on Environmental Impact of Internet Applications and Systems** is upcoming in first week of December!
- **IAB workshop Management Techniques in Encrypted Networks (M-TEN)** was held in October.
  - All accepted position papers are available on the webpage.
  - A first draft of the workshop report is expected soon.
  - Slides are available here: https://datatracker.ietf.org/team/mtenws/meetings/
  - Recordings are available on YouTube: https://www.youtube.com/user/ietf

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

- **Harald Alvestrand** was re-appointed as the [IETF Liaison to the ICANN Board of Directors](https://www.ietf.org).  
- **Tim April** was re-appointed to the [ICANN Root Zone Evolution Review Committee (RZERC)](https://www.icann.org).  
- **Warren Kumari** was appointed as the [liaison manager to ISO/IEC JTC1 SC6](https://www.iso.org).  
  - Thanks to **Allison Mankin** for her service, who served in this role for many years and was looking to step back!  

Thanks to all for serving!

No open calls!

- Please provide feedback to NomCom for IAB positions!  
- Call for candidates for the ISOC Board of Trustees is coming up soon!
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
Three ANRP award talks presented during the IRTF open meeting earlier today:

- Gautam Akiwate for his work on the risks of domain hijacking due to registrar practices
- Corinne Cath for her ethnographic work on the IETF’s distinct organisational culture and how its ‘rough’ edges limit the ability of human rights’ advocates to get their concerns included in technical discussions
- Daniel Wagner for his work on DDoS attack detection and mitigation

Papers and slides at [https://irtf.org/anrp/](https://irtf.org/anrp/), recordings on IETF Channel on YouTube
Nomination deadline: 18 November

https://irtf.org/anrp/
The IRTF is pleased to offer travel grants to support early career academics and PhD students from under-represented groups to attend the IRTF meetings co-located with the IETF.

We also offer travel grants to attend the ACM/IRTF Applied Networking Research Workshop and make a small number of meeting fee waivers available.

https://irtf.org/travelgrants

Thank you to our sponsors – please contact the IRTF Chair if you wish to help expand these programmes.
We started late, but …

… we should end on time.

- Questionnaires: had six weeks, this time 2.14 weeks
- Interviews during this week in-person AMAP
- Get your feedback in!
Thanks

● Robert, Glen, Jenny, etc.
● The voting volunteers
● The whole committee
● The IETF community
IETF Administration LLC
Jay Daley, Jason Livingood
Thank you to the IETF 115 Hosts
IETF Administration LLC
Thank you to the IETF 115 sponsors

Equipment and Services Sponsors

CISCO

JUNIPER NETWORKS

webex by CISCO

CLOUDFLARE

Scout APM

SENTRY

Making the Internet work better
IETF Administration LLC
Thank you to the IETF 115 sponsors

Gold Diversity and Inclusion Sponsors

Akamai
CISCO
HUAWEI
Gold Sustainability Sponsor

ORACLE

Cloud Infrastructure
IETF Administration LLC
Thank you to the IETF 115 sponsors

Silver Sponsor
Running Code

Bronze Sponsors
Diversity & Inclusion

COMCAST
ICANN
identity digital
VERISIGN

Running Code
ICANN
Connectivity Sponsor and Local Supporter

[BT logo]
Thanks to the many generous volunteers

Codesprint

Éric Vyncke  
Jean Mahoney  
Jennifer Richards  
Justin Iurman  
Kesara Rathnayake  
Lars Eggert  
Nicolas Giard

Rich Salz  
Robert Sparks  
Russ Housley  
Ryan Cross  
Tero Kivinen  
Ian Williams  
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)  
Rob Austein (Arrcus/DRL)  
Warren Kumari (Google)
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

**NOC**
Con Reilly  
Nick Kukich  
Daniel Brank  
Paul Smith  
Sean Croghan

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

**Tools**
Jennifer Richards  
Margaret Cullen  
Mark Donnelly

**LLC**
Greg Wood  
Lee-Berkeley Shaw  
Robert Sparks  
Kesara Rathnayake  
Nick Giard
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
# Future meeting locations and venues

<table>
<thead>
<tr>
<th>MEETING LOCATION</th>
<th>VENUE</th>
<th>DATES</th>
<th>HOSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>IETF 116 – Yokohama</td>
<td>Pacifico</td>
<td>March 25-31, 2023</td>
<td>WIDE</td>
</tr>
<tr>
<td>IETF 117 – San Francisco</td>
<td>Hilton Union Square</td>
<td>July 22-28, 2023</td>
<td>Nokia</td>
</tr>
<tr>
<td>IETF 118 – Prague</td>
<td>Hilton Prague</td>
<td>November 4-10, 2023</td>
<td>*</td>
</tr>
<tr>
<td>IETF 119 – Asia</td>
<td>TBA</td>
<td>March 16-22, 2024</td>
<td>*</td>
</tr>
<tr>
<td>IETF 120 – Vancouver</td>
<td>Hyatt Regency Vancouver</td>
<td>July 20-26, 2024</td>
<td>*</td>
</tr>
<tr>
<td>IETF 121 – Europe</td>
<td>TBA</td>
<td>November 2-8, 2024</td>
<td>*</td>
</tr>
<tr>
<td>IETF 122 – Bangkok</td>
<td>Marriott Marquis Queen's Park</td>
<td>March 15-21, 2025</td>
<td>*</td>
</tr>
<tr>
<td>IETF 123 – Madrid</td>
<td>Melia Castilla</td>
<td>July 19-25, 2025</td>
<td>*</td>
</tr>
</tbody>
</table>

* Please contact sponsorship@ietf.org if interested in sponsoring a meeting
IETF Endowment purpose and goals

- Created to support the IETF and its activities
  - Financial independence for IETF, long-term sustainability of IETF work
  - Diversity of income - not reliant on any single funder
- Goal of US$50M by 2027 - we are at nearly $4M at present

https://www.ietf.org/endowment
IETF Administration LLC
IETF Endowment

● **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

● **Thank You to our Donors**
  ○ Continuing thanks to our Flagship donors, ARIN, Internet Society, and RIPE, and our Benefactor Donor, LACNIC for their leadership gifts. Additional thanks to the several individuals who increased their giving in 2022. The IETF Endowment has received nearly $15,000 in individual donations from 196 members of the IETF community - thank you to all who have given!
IETF Administration LLC Report

Part 2 - LLC Board Update
Board Chair - Jason Livingood

IETF 115
November 2022
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
1. Detailed retrospective of & report on COVID mitigations from IETF-114 & discussed possible future meeting approaches
2. Continued focus on fundraising progress
3. Arranged joint meeting with the IETF Trust board to support their new administrative bootstrapping
4. Preparation for fiscal year 2023 budget process
5. Pondering longer term questions
   - Are there any remaining gaps post-ISOC spinoff?
   - What is the ‘new normal’ for hybrid mtgs attendance numbers & how do we adapt?
   - How should venue contracts evolve given recent experience?
   - When do we pivot to follow only local COVID guidelines?
## Previous Fiscal Year Operating Budget

### August balances, original budget

<table>
<thead>
<tr>
<th></th>
<th>YTD Actual</th>
<th>YTD Budget</th>
<th>YTD Variance %</th>
<th>Annual Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td>$5,906,085</td>
<td>$10,567,383</td>
<td>(44%)</td>
<td>$13,008,413</td>
</tr>
<tr>
<td><strong>Expenses</strong></td>
<td>$5,796,665</td>
<td>$6,593,514</td>
<td>12%</td>
<td>$9,980,007</td>
</tr>
<tr>
<td><strong>Capital Investment</strong></td>
<td>$376,836</td>
<td>$382,026</td>
<td>1%</td>
<td>$573,039</td>
</tr>
<tr>
<td><strong>Net Income after capital</strong></td>
<td>($268,416)</td>
<td>$3,519,843</td>
<td>(108%)</td>
<td>$2,455,367</td>
</tr>
</tbody>
</table>

### Investments

<table>
<thead>
<tr>
<th></th>
<th>31 Aug 2022</th>
<th>31 Dec 2021</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Change</strong></td>
<td>$18,926,175</td>
<td>$21,068,691</td>
<td>↓ $2,142,516</td>
</tr>
</tbody>
</table>

**Notes:**
- Significant drop in investment portfolio but we expect recovery in 2023
- Onsite meeting registrations much lower than forecast, which is amplified by low room occupancy penalties
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
Introduction

Alexis Rossi, RFC Series Consulting Editor (RSCE)
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 RFC’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 Contributions & RFC Development

Contributors

Contribution

Ideas go to IETF

Contribution

Granted Rights (RFC5378) Go to IETF Trust

Contribution

Contributors Retain their Rights including Copyrights, Trademarks

IETF

Produces

RFCs

Contributions

Right to use RFC Copyright

Granted Rights

IETF Trust

license

Grants Everyone license to use RFCs & Contributions
Updates since IETF114

- 1 New Assignment to IETF Trust
  - L4S Badge Artwork

- Change in legal representation
  - Biddle Law completed their representation
    Thank you Brad Biddle & Vigdis Bronder
  - Gesmer Updegrove selected to provide legal services
    Welcome Andy Updegrove

- Correction to RFC citation in Trust FAQ (details next slide)

- Restructuring Underway (see later slides)
Correction to Trust FAQs

An error in the Trust FAQs on the TLP Modification of February 15, 2019 was reported.

Correct several references to RFC5378 that should have been to RFC3978.

See old & new text details:
https://trustee.ietf.org/about/announcements/update-to-faq/
IETF Trust is Converting from Virginia Trust to Delaware Corporation

- Resolves Trademark registration issue that Trust’s can’t register Trademarks
- Resolves problems around obtaining sufficient insurance coverage
- Reduces personal liability & risk for Trustees
- Work will continue into 2023

Materials about restructuring available on IETF Trust web site, www.trustee.ietf.org

Articles of Incorporation have been filed with Delaware

- Using “IETF Trust” as the registered corporation name:
  - Approval had been given by Delaware for to use IETF Trust
  - Name was later rejected after filing Articles of Incorporation

- IETF Intellectual Property Management Corporation
  - chosen as the registered corporate name
  - accurately reflects the entity’s role
  - IETF Trust name still used in corporate documents such as bylaws
IETF Trust Restructuring Update

Community Consultation on Proposed IETF Trust Restructuring

May–July 2022 Completed

Draft ByLaws Community Webinar Discussion, Review, & Feedback

The IETF Trust (aka) IETF Intellectual Property Management Corporation

Approved (July 2022)

Virginia Trust

Happening Now

Delaware Corporation

501c3 not-for-profit

Happening Next

501c3 not-for-profit

Update necessary RFCs BCPs

After 501c3

Updated RFCs BCPs

IPR for IETF Contributions

After 501c3

IPR for IETF Contributions

RFC Copyrights

After 501c3

RFC Copyrights

Trademarks: IETF, IANA, etc.

After 501c3

Trademarks: IETF, IANA, etc.

SW licenses: code donations, YANG Catalog

After 501c3

SW licenses: code donations, YANG Catalog

Other IPR & Duties

After 501c3

Other IPR & Duties
Want to talk to the Trust?

IETF 115 Office hours:
Thursday 1-2pm
Room: GMT 1
Great opportunity to visit Japan!

- COVID restrictions lifted
  - Still need vaccination (w/ booster) or negative PCR test (as of today)
- Lower inflation rate & drop in the JPY
- Sakura Cherry Blossom Season
Jonathan B. Postel Award
Congratulations to the 2022 Jonathan B. Postel Service Award recipient

George Sadowsky
Internet Architecture Board (IAB)
Open Microphone Session
<table>
<thead>
<tr>
<th>Jari</th>
<th>Deborah</th>
<th>Lars</th>
<th>Wes</th>
<th>Cullen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mallory</td>
<td>Mirja</td>
<td>Zhenbin</td>
<td>Tommy</td>
<td>David</td>
</tr>
<tr>
<td>Russ</td>
<td>Qin</td>
<td>Jiankang</td>
<td>Colin</td>
<td></td>
</tr>
</tbody>
</table>

**IAB Chair**: Mirja

**IAB Open Mic**: Colin ex-officio IRTF Chair
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

<table>
<thead>
<tr>
<th>ART</th>
<th>RTG</th>
<th>TSV</th>
<th>INT</th>
<th>OPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Murray</td>
<td>Alvaro</td>
<td>Martin</td>
<td>Erik</td>
<td>Rob</td>
</tr>
<tr>
<td>Francesca</td>
<td>John</td>
<td>Zahed</td>
<td>Eric</td>
<td>Warren</td>
</tr>
<tr>
<td>Lars</td>
<td>Andrew</td>
<td>Roman</td>
<td>Paul</td>
<td>Mirja (ex-officio IAB Chair)</td>
</tr>
</tbody>
</table>

- ART
- RTG
- TSV
- INT
- OPS
- GEN
- SEC