

IETF 119 Plenary

March 20, 2024

Brisbane, Australia

>> LARS EGGERT: Well, thanks, everybody. And thank you, Warren, for the unplug it and it plug it back in tip. That fixed the v4.

So welcome to the IETF 119 Plenary in Brisbane. Brissie, I guess, I heard this many this week. My name is Lars Eggert. I work for Mozilla at my day job, and I'm the IETF Chair for a few more minutes. So let's get started.

This the Note Well. This is a session at the IETF. Like the other ones you've been participating in already. There's various policies that govern your participation here in this room but also in the IETF overall. You should really familiarize yourself with these. Mostly, you agree to follow our processes and policies. There's a disclosure obligation for IPR. You acknowledge, especially in this room where we have audio and photographers, you acknowledge that you might be recorded or video might be taken of you. Personal information you provide, we will take our utmost care to do well with it. And you also agree to work well with others in this organization. At all times, please. And if you are bored, there's a bunch of documents on the bottom that you can refer to and read.

Online, if you're on Meetecho, your audio will be muted and your video will be off when you join. Please unmute yourself only when you are in the queue and you're recognized as the next speaker. If you can, turn the video on when you're speaking. It sort of helps us get a feeling for who you are and where you are. And if you have a headset, it is usually good to actually also use it. And there's a whole lot more details about best practices at the URL at the bottom.

We have a pretty full agenda. I think we have a two-hour slot, if I remember correctly. And quite a bit of content to get through today. So I'm going to try and keep the presentation part to like an hour so we have another hour for the various open mics. Sort of, let's aspire to that. And also, during the open mic, it's sort of helps if you can be concise when you ask your questions. It really let's other people also get a word in, so please try and do that. You have a lot of time in the beginning to really hone your question to a fine point.

So, again, welcome. We have a host presentation from Vint Cerf of Google who is the co-author of this meeting. We have the regular reporting from the

various orgs and groups.

We have a slightly longer presentation from the LLC this time about some of the financial situations and relationship between ourselves and the Internet Society. Warren is going to talk to us about IPv6, an experiment they're planning, either for Vancouver or a later IETF, depending on, I guess, on whether equipment does what it's supposed to do in Vancouver or not.

We have two brief in Memoriam sessions followed by the three open mics for the various bodies. And we're not bashing this agenda, so I'm going to move on.

Thank you to everyone who makes this happen. The Secretariat is doing excellent work. Been here for a long time. I'm getting an echo from somewhere. The Meetecho team has been great this week at canceling echo and many other things this week. The NOC has done a great job with the whole black cable thing. Thank you, NOC.

The LLC for, you know, basically paying for all of it. And generally, letting us run meetings very smoothly with good contractors and good staff.

The Tools Team which are a core part of the organization, partially staffed through LLC resources and a lot of support from the community. So thank you for that.

And the hackathon which has sort of become the unofficial, soft open of the IETF on the weekend before and is everybody's sort of secret favorite part of the IETF week. So thanks to all the people who run all of this.

Let's see Vint and his video.

Do I need to do anything? No.

>> VINT CERF: Hello. My name is Vint Cerf. I'm Vice President and Chief Internet Evangelist at Google. And I wish I could be there in-person with you at IETF 119. Unfortunately, my calendar didn't cooperate again this year.

However, I hope that you'll forgive me for only virtual presence.

First of all, I'm very proud of the fact that Google has been able to help sponsor this year's IETF meeting in Brisbane. I should have opened with g'day, but I was sure that Geoff Huston would go after my mispronunciation of Australian English, so I won't do that. But I want to observe why what you're doing is so important.

The Internet is a 50-year phenomenon now, as you all know. The first

important paper published about it was in 1974 in the IEEE Transactions on Communications. And now, we have 50 years later, a globe gird line system. Unfortunately, some of the challenges that are involved in the Internet also make it a blank-curdling system because we now realize that the environment that it enables can be very toxic. Whether we're talking about ransomware or malware or denial of service attacks or spam or vulnerabilities that show up. They're just wide range -- well, okay, social networking as well. All of those things have potentially toxic downsides. And the question that we ask yourselves in the IETF meetings is whether there are any technical means by which we can moderate or eliminate or at least mitigate some of the harmful potential behaviors that these systems enable.

Now, we're not going to succeed absolutely in preventing people from misusing these technologies. We all know that. But it shouldn't stop us from trying to put some friction into the system. And of course, we know if you can't stop something technically, the next best thing is to say, Well, if we catch you doing that, there will be consequences. That's about law enforcement. And as you know, there are debates about a kind of Internet law, cybercrime treaty which is debating what things are crimes in the online environment and how should they be addressed and how do countries cooperate with each other in order to track down parties that should be held accountable.

But I hope you'll spend your time, I hope a little bit of it out in the vineyard sampling some of the wonderful wines in Australia but also working hard with your Working Groups and Area Directors to help move this body of technology and standards along in a way that will help support its use by the general population, now approaching 8 billion people.

So I wish you well in your work. I look forward to hearing back from a successful completion of some of the Working Group, perhaps creation of others. And in the meantime, see you on the Net.

(Applause)

>> Engineering task force.

(Laughter)

>> LARS EGGERT: This is not the time for questions, please.

All right, sorry for that. And apologies to Vint remotely for speaking over his video.

I must say, I've seen a lot of walls like behind people during COVID, and that's an impressive office wall that he has back there.

Could we please stop with the video from remote. This is not the time for questions.

Thank you.

But seriously, I want to thank Google. There's been some hiccups leading up to this meeting in terms of the host support. None of which is Google's fault who weren't even part of the original set of hosts. They came in very late. They supported us and helped us out of a lot of trouble. So thank you very much, Google, for doing this.

And I also want to thank the other hosts of this meeting, the Consortium members of the .au Domain Administration, Console Connect, and the Internet Association of Australia. And we couldn't have done this meeting. As you know, it cost a lot of money. It's very important to set up, and we rely on local and global supporters like them to make these meetings happen. So thank you very much.

Right. This brings me to the IETF Chair Report which is usually pretty boring. We have participation stats, a bunch of stuff about where the future meetings are, some announcements the IESG did, and other topics that are in the online report that you can already read. I think it's been announced a couple days ago, I want to say.

As of today, I want to say, we have almost 700 people on-site. Which is tracking, unfortunately, a little lower than we expected. But we did look back. It's been a long time since we've been to Australia, but already like 20-ish years ago I want to say we were here last, we saw a similar dip. So it wasn't unexpected. We see an uptick in remote participation as it corresponds to the in-person dip. So overall, I think we're looking pretty solid in terms of participation.

A lot of the remote people took advantage of the fee waivers. Like over half of them. So that's what they're there for. If you do have a chance to expense your remote participation, we do ask that you do that because it really does fund part of the organization. Remote participation is not free. But those of you who do need the fee waivers, also, please do take them.

For the on-site fee waivers, I got 10 requests, and I granted six. Colin on the IRTF side had one request he granted. And he runs a grant program which is not quite the same as the fee waiver that brought, additionally, five people in.

And also, the APNIC Foundation hosted or offered a grant program for people out of their region to attend the IETF. And they funded another 20 in-person attendees. So this is something that, you know, if you're hosting a

future meeting in your region, this is totally something you can do. We're not going to stop you from doing that. So I think that is a very nice, at least first time we did this. Worked really well.

Hackathon 300. So over half the people on-site were there for the hackathon already. It was a very successful event. As always, a lot of code got written. And a lot of work on drafts and new ideas got started during this event already.

This is the breakdown of participants between on-site and remote. You can see both of those are pretty heavily U.S.-centric. We did sort of have a question this morning to Secretariat, because if you look at the remote pie, there's a Turkey slice on the bottom which is surprisingly large. And we've not seen this. And it turns out, there's -- I think there was 50 people from Turkish University that took fee waivers and are participating. Which is great. Welcome to friends if Turkey. I wonder if it's a one-off or not. If you send us an email about why you're doing this and whether it's been successful for you, I think we would love to know.

This is a slide that shows the meeting registration --

>> Answer why I am doing this?

>> LARS EGGERT: Still not time for questions.

The meeting registrations over time in the post-COVID period starting with the Vienna IETF which had a very low in-person participation to now where you can see that we tracked down a little bit. But I think in the overall participation, we're still relatively stable. So we're going to see what happens in Vancouver and then in I want to say Dublin. I think so. Yeah, that's right. But thanks to those of you who made it here.

The IESG did a bunch of statements and announcements. We appointed Kristin Berdan to the IESG Trust after asking for feedback on the candidates. We rearranged the areas and we created the WITAREA, and tonight is actually when the transition formally happens with the Transport Area being solved. In the Datatracker also, it's already empty, but it exists as an area. And we talked about the All Dispatch experiment we had on Monday. We announced we were going to do it and took feedback from the community. Thank you to those who sent feedback after we had it. There was a lot of good suggestions. My expectation will be the IESG is probably going to try to do it again in some form in Vancouver. Taking the feedback into account. And running it slightly differently. Or they may not. You know, I'm out. So it's their show now.

We have zero appeals since IETF 118. I'm very happy I can end with zero

here. There's also none pending anymore. And a lot more of the reports are available online in the Datatracker where all of our other materials are as well.

And we have a blog that occasionally, I want to say weekly roughly, gets new content. If you are doing work in the IETF that you think is of interest to the blog, Gregg over here is very happy to talk to you about co-authoring or authoring something for the blog. Get in touch with Gregg, or email the IESG, and we'll get you in touch with Gregg.

We have childcare again at this meeting. It's been pretty successful, as always. I heard good things. We have, I think, four kids that -- in the daycare, at least part of time. This is something we're planning, basically, to do forever. So if you have kids and you need to bring them or want to bring them, you can. There's no cost associated with this. We usually email out the Call of Interest, so we can plan accordingly for the number of kids we expect. So if you see that email for Vancouver or for Dublin and you want to take advantage of it, please do. There's no cost, and it really makes it possible for people to attend the sessions that otherwise maybe had to be remote or maybe not attend at all.

And that brings me to Mirja and the IAB.

Or not. Oh, it does.

>> MIRJA KÜHLEWIND: Hello. Mirja Kühlewind. I'm the IAB Chair for another hour. And I give you just a very quick report about what the IAB is doing. Usually, you find the full report in the proceedings. And here are some highlights.

We just recently published, for example, two RFCs about workshop reports. So you should read them. We also published a statement about mandatory client-side scanning which created discussion that might be interesting. And we had an appeal and responded to it last year already.

And then a really exciting thing, we have a new website!

(Cheers)

>> MIRJA KÜHLEWIND: Yeah, I just thought the website should halfway represent that we know what the Internet is about. So hopefully, that creates interest in the IAB. And we also moved a lot of data or information to the Datatracker and made like the website, hopefully, more -- make it more easy to find things on the website. So if you have any comments on that, how to further improve the website, please let us know.

And then I'm already at the point where I would like to thank those people that recently appointed. So we appointed Petr Spacek or re-appointed him for the ICANN Technical Liaison Group. We already decided about the ISOC Board of Trustees, but this appointment will be announced in April together with all the other appointments. And we re-appointed Eliot Lear for the ISE.

And then I'm also here to say thank you and stepping down as IAB Chair and announce that the new IAB Chair will be Tommy Pauly. Congrats.

(Applause)

>> MIRJA KÜHLEWIND: Okay, and one very last slide. You already missed the IAB Open today, and we have no program meetings this week. But there are the IAB Coordination Office Hours in case you want to talk to some of us. But that's it from my side. Thank you.

(Applause)

>> LARS EGGERT: Next up, Mr. Colin Perkins. Professor Colin Perkins.

>> COLIN PERKINS: Okay. Thank you, Lars. I'm Colin Perkins. I'm the IETF Chair for a whole other year. Not merely minutes in this case.

One of the things we do as part of the IRTF is we administer the Applied Networking Research Prize.

This is organized in conjunction with the Internet Society. We are very grateful also to sponsorship from Comcast and from NBCUniversal. And the Applied Networking Research Prize is awarded to recognize some of the best recent results in applied networking.

So in order to recognize interest in new research which is of potential relevance to the standards community going forward. And in order to recognize upcoming people who are likely to have impact on Internet standards and technologies going forward.

Very pleased to announce that on Monday this week, we made one Applied Networking Research Prize award. It went to Dongqi Han Tsinghua University for his work on the context shift adaptation and normality and in anomaly detection systems.

We had a really fantastic talk in the IETF Open meeting earlier this week. The recording is on YouTube on the IETF channel there, and the paper is on the IRTF website. So if you were unable to come to the meeting, please do watch that recording of the talk. It was a really fantastic talk.

In addition to the Applied Networking Research Prize, we also organized the ANRW, the Applied Networking Research Workshop, in conjunction with ACM SITCOM. This takes place in the July meetings, so it will be taking place at IETF 120 in Vancouver later this year. The organizers this time, Jayasree Sengupta, Simone Ferlin, and Ignacio Castro. The call for papers is out. If you have any interest in applied networking research work, the deadline for submissions is the 15th of April. So please do consider submitting.

And finally, I would just like to thank this last -- mentioned earlier, we do have --

>> Can I jump in?

>> COLIN PERKINS: No. We do run a travel grant program. We have a significant number of people attending on that travel grant program this time. We are very grateful to the sponsors. Akamai, Comcast, Netflix have been supporting us for a significant number of years now. This time we also received sponsorship from the Brisbane Economic Development Agency and from Google. And we're very, very pleased and thank them for their contributions. We managed to bring a significant number of people to the meeting this time.

With that, that's all I have. Next moving on to the NomCom. Martin.

>> MARTIN THOMSON: Thanks, Colin. All right. So the NomCom has concluded its normal business for this cycle.

Knock on wood that we don't have to do anymore.

You can thank any of these people if you see them. They put in a ton of work over the past little while. And we're very grateful to them. It's a difficult job.

So these are the people that have been appointed. I won't list them all. You can congratulate them in the hallways as you see them and thank them for volunteering for some excellent ongoing work, I'm sure.

So this -- people tell me this was a difficult year for the NomCom. We had a little bit of churn. And one -- we learned a few things in the process.

So there were a few things where we're off the process, so we had to essentially come up with processes on the fly. I think that largely worked this time. But we'll see over time.

A thing to note is that a lot of this process relies on oral tradition and the

people involved being generally very good. And I think I'm grateful to everyone involved for just how much support we were given. This only worked because we got so much support in the community. And I thank you all for that.

Of course, we reject presidents in voting, except not in the NomCom.

(Laughter)

>> MARTIN THOMSON: So that is a useful tool, I will point out.

And finally, this only works because we are generally excellent to one another. So thank you, everyone.

(Applause)

>> LARS EGGERT: Thanks, Martin. And I think the NomCom is going for dinner after this, so you should make sure that you use the entire budget that the LLC gave you. You really deserve it.

Glenn Deen with the Trust.

>> GLENN DEEN: Hello. Hi.

I'm Glenn Deen, and I'm the Chair of the IETF Trust.

So we've had a couple new trustees, as you saw from people at the IESG. And the NomCom, we've had two new appointees. So the current trustees as of this meeting are myself, Kathleen Moriarty who serves as our treasurer, Victor Kuarsingh, Jon Peterson and Kristin Berdan, and these are your five trustees. We take care of protecting the IP rights if the IETF and enable the IETF to do its work with as least harassment from IP, copyright, and trademark stuff as possible.

And unfortunately, we're five people. We get two new ones, that means we lose two people. So I would like to take a moment and say that Joel Halpern has been on the Trust since 2019. He's been a very valuable contributor who really helped -- in 2019, if you remember back then, this was when the Trust split off from the IAOC. And we found ourselves to be five trustees. We used to be part of a larger body. The IAOC, there was more trustees. I think the count back then was seven or eight.

We found ourselves with a trust with a mission. And we had to sort of take that up and form a new sort of an exercising of the program. So we had a lot of work in 2019 that kept us very busy for the last couple years. And Joel was there every step of the way, contributing daily, and just being a

fabulous member of the team. And it's sad to see him go. I'm sure the new trustees will be great too, but I'm going to miss Joel and working with him.

And unfortunately, Joel is not here today so, we can't recognize him as much as we're about to recognize Stephan.

Stephan also joined the Trust in 2019. Stephan has been a fabulous resource for the Trust. As we worked through things like restructuring into a new corporate entity, and we've worked through evaluating questions that came from the community about can we use this or can we use that, Stephan's very deep knowledge about the law, about copyright, and about the IETF have been incredibly valuable. And he will be missed from the Trust. Although, he's not going to go far. I'm going to bug him with a lot of questions forever.

Anyways, I would like to ask Stephan to come up here. Stephan, are you in the room? I warned him to be in the room. He better have stayed. There he is. Come on up, Stephan, we have something for you.

>> And I'm not dead, so --

>> GLENN DEEN: Thank you for your service with the Trust. And we are in Australia, so, of course, you're going to get a boomerang with your name on it. So don't throw it away because we'll know --

>> STEPHAN WENGER: Thank you very much.

(Applause)

>> GLENN DEEN: Okay. So the Trust is also very boring. So we have things set up to be fairly automatic in that the copyrights assigned to drafts when they're submitted are all automated. We don't have to write individual agreements. We produce drafts, and they turn into RFCs. They get usable without us issuing new licenses. So the Trust successfully issued no new written licenses since the last meeting. This is exactly how it should be. It's a smooth, very efficient process.

The only time we issue a new license is when we have to do something extraordinary, out of the norm. This is awesome. It means things are working as designed.

We had one licensing request that came in, and it was from external that wanted to use some stuff. We resolved that. We didn't have to write a new license. We pointed them at the process they could already use the license, and they were satisfied. And we successfully did not either get sued or decide to sue anybody. That's always a good thing. So it's been a very

productive --

(Applause)

>> GLENN DEEN: The other thing I want to talk to you about is our restructuring. As you have been on this journey with us for the last couple years, the Trust did a public consultation with the community. Should we restructure from a Virginia Trust as we were operating since 2005? There's a lot of reasons for -- benefits to both the IETF and to the trustees as well. To restructure as a Delaware not-for-profit corporation. That corporation got stood up in December of 2022. And I'm here to say that we are moving along very well. We are working on the final stages of moving over into the corporation. The money in January, the money went over there in the budget. So the corporation's paying all the bills for the Trust. And we are in the stages right now of transferring the copyrights, the agreements, and the trademarks over to the new corporation. So hopefully, our goal is by IETF 120 in Vancouver, we're going to come back up on stage and go, we're done. So the light at the end of the tunnel is being seen by everybody. It's pretty awesome.

And we've also been doing some spring cleaning. So turns out that if you're an organization like the Trust and have been around since 2005, you generate a lot of junk. And one of the things we found out is we had six palettes of stuff still in storage in Virginia.

So last year we sent a team down to pull all those boxes and those palettes out, go through it, find stuff. We found a lot of stuff. A lot of it was junk. But we did find good stuff. We found old proceedings from the IETF, paper copies that we're going to have scanned to fill in the blanks where there's missing proceedings or maybe they were scanned with poor quality. That was a win. We found a lot of Bluesheets when we used to do things on paper. We're going to get that scanned and uploaded to Datatracker. So that will be part of the archive now, and we won't have to be storing paper. And we also found a lot of backup tapes. So I mean, this is ancient history. We're going through them and figure out what it is. The stuff we don't need, we're going to toss. The stuff we need, we're going to keep. Spring cleaning is going on. It's been underway right now, and the Secretariat has been really awesome helping us do that.

And finally, if you want to contact us, there's our information. You can send us email, or you can find me in the hallway. Or you can come talk to a very lonely guy because on Friday I'll be spending an hour in room 9. Please come and talk to us. We have done these hours for a couple years now. I think we've had two people, maybe three have come. So let's make this the IETF that we get the most visitors to the Trust Open Hours on Friday. And

with that, thank you very much.

(Applause)

>> LARS EGGERT: Which brings us to the LLC. Jay and Jason. I don't know what order you're going in. You probably both want to be up here.

Stage design is not super ideal for getting on it.

The only thing worse to be at one end and the thing over --

>> JAY DALEY: Thank you, Lars. Hello, everybody. I'm Jay Daley. I'm the IETF Executive Director. As this is Lars' last time, I'll leave him to tell all the jokes today. Make all the jokes.

So first of all, a little apology, I did pick up quite a bit before we came how good the coffee would be from the baristas. The lesser about that, the better. But thank all for your support anyway.

(Laughter)

>> JAY DALEY: First of all, on to the IETF 119 Hosts. So a big thank you to our co-host Google and our co-host Consortium Members of auDA, Console Connect, and Internet Association, and key local supporters, Brisbane Australia, Tourism Events Queensland, and our local host APNIC. Thank you.

(Applause)

>> JAY DALEY: For those of you who haven't been to a Plenary before, there will be a lot of clapping during my slides. Thank you.

So thank you to IETF 119 Gold Sponsors. These are the people who take up values-based sponsorship and help support a number of the elements of the meeting that we would not be able to run otherwise.

For Diversity and Inclusion, Akamai and Huawei. For Running Code, Ericsson. And sustainability, Oracle Cloud Infrastructure. Thank you very much.

(Applause)

>> JAY DALEY: We also have a wide range of silver and Bronze Sponsors. Thank you very much to all of them as well for their ongoing support.

(Applause)

>> JAY DALEY: And we also have a large number of Equipment Services

and Connective Sponsors. New, of course, to the list, we have Aussie Broadband who provided the broadband for this service. They got fiber into the building. They've been trying to get fiber into the building for a while, so it worked out very advantageous for all of us for that. So thank you very much to all of these sponsors.

(Applause)

>> JAY DALEY: A little plug. We have a store where you can buy T-shirts and other things. It's online ordering. Worldwide delivery. You can get it in your size. You can buy as many as you like.

We are trying to negotiate to have older T-shirt designs added on to the store because, you know, some people are missing one or two in their collections and need to ensure they can pick those up. Effort is going into that.

We've had a number of suggestions for other products to add to the store, and we will consider those, I'm sure.

Right, so during the meeting week, we have, as well as everybody that volunteers and participates in the meeting, we have a number of volunteers that do work behind the scenes.

We have the Code Sprint volunteers who spend a day and a bit working on Datatracker and developing code for Datatracker. And we have the NOC volunteers who many of whom sit in the room throughout the meeting working on the NOC. So thank you all to all of those people and to all of their employers. Thank you.

(Applause)

>> JAY DALEY: And this is the hard-working team that we have from the Secretariat and the Meetecho team and from the NOC team, as well, from the contracting NOC team as well. So thank you all very much for your work this week.

(Applause)

>> JAY DALEY: This is the staff of the IETF Administration LLC. Since we last spoke, Sangho Na has joined us as a another senior software development. Moving on.

So for those that aren't aware, we have Global Hosts and Global Supporters who sign a multi-year commitment, six to nine years and who then host the meetings on a regular cycle. They're the ones from whom we receive the

bulk of the financing for meeting sponsorship.

And these are very well committed organizations. Many of them, as well as also being sponsors in that way, give us other things such as equipment or services and sponsor other areas as you've seen. So thank you all very much to these as well.

(Applause)

>> JAY DALEY: So for this meeting, we made a number of improvements for our on-site experience. The main registration desk now opens on a Saturday morning. That's a seamless process. It used to be a smaller registration desk available then just for the hackathon badges. And so that's made life easier for people.

We have a single, shared workspace that combines the lounge and the terminal room. And that appears to have worked very well. Perhaps just using a different name. That's actually been relatively busy all the way through. Whereas the lounge and the terminal room were a quite dead, normally.

We've also put a lot of effort into reducing waste. We now have this single badge. It is sustainable because it's made from cardboard. And it's low-key produced. And it can only go one way around. Use the intelligence. You can put it around with your name on it. And we can put useful information on the back. And we're going to be adding more things and more colors and stuff over time, developing that badge, making the font bigger and things.

T-shirts are now pre-ordered for size and quantity matching. So we don't have wastage there.

And while I know this upset some people, we are reducing the on-site food to minimize waste because we had far too much being thrown away previously.

And all of these are largely driven from the feedback we get from the post-meeting survey. So just a reminder, the post-meeting survey is very important for that.

So we have IETF 120 coming up in Vancouver. We will be opening registration for that soon. This is one of those meetings where we strongly recommend that you try to take one of our rooms because of the prices, we will have a much cheaper price than if you go other methods.

And these are our future meeting locations and venues. So we have Vancouver in July. We have Dublin in November. And then we have two of

the re-organized meetings early next year. We have Bangkok in March and then Madrid in July. And we're hoping to announce a North America meeting within a few months anyway.

So just very briefly. The little bit about the Draft Report on the 2023 Community Survey. So we held the Third Annual IETF Community Survey from December 2023 to January 2024. Sent it out to 49,000 email addresses. Got over 2,000 responses. And that draft report is now available. And comments are welcome until the 8th of April.

What I'm going to show you is just very briefly the key findings from that report. We're very interested of your feedback on these things. This is our interpretation of the data. You may have different views about that data. You may think different things need to be brought out from it. That's why it's a draft report to give the community a chance to comment on that and see what is useful, what needs to be brought out, and whether there's mistakes in the interpretation of the data.

So very briefly then, the IETF is good at delivering its mission and principles. But could do much better. So there is very strong agreement across the community that the IETF produces high-quality, relevant RFCs in an open and transparent manner. The IETF is considered very important organization. And most astonishingly, it outperforms its peers in all respects. So we ask people a direct comparison, how do you rate the IETF compared to other SDOs in a series of questions. And in each one, the IETF came out better.

So I won't go through them all, but there are more key findings, but I'll go through the bottom one.

The IETF still has a problem with gender diversity. We have a small percentage of our participants here that identify as women. And nowhere near the population -- male percentage of the population.

So just to finish off. A few more key findings that you need to look at and read in the report. But the bottom one is my favorite one, that email is still universally preferred. However, slice and dice the data by age, by type of participant, by gender, by anything, people love email. So little lesson for us to take away. Okay.

That's it for me. Thank you.

(Applause)

>> JASON LIVINGOOD: All right. Thanks, everyone. I'm Jason Livingood from the LLC, and I'm going to be speaking to you today.

As a quick side note, I've been working a lot recently on latency, and I want to note that my pings have been 86,000 milliseconds in the Plenary. So if you are Tommy's second Sammy or -- what's the other one? My -- my_bus_phone, Warren would probably like to talk to you afterward to do a bit of a root cause analysis to see what the hell is going on with your device. So fascinating -- wow, that's a lot of round-trip time.

So anyway, I digress. We wanted to first thank two departing board members, Maja Andjelkovic who has been with us from the beginning of the LLC and Lars Eggert. So thank you very much, both of you.

They'll both be getting a very exciting plaque and a personal gift which, hopefully, is more fun. And these are the Board members currently as of this week. The two new members are Roman and Shauna. Roman, of course, from the IESG and Shauna appointed through the NomCom process.

These are the regular schedules of meetings. We have our board meeting regular one coming up next week. And our Annual Board Retreat a bit later this year, that's in May. That will be in Philadelphia this year.

This is a snapshot of the end-of-year 2023 fiscal year. We are waiting on the audited results. The audit's in process now. But in general, good picture. We were a little bit higher on revenue than expected. A bit lower on expenses. So the net effect was being about \$750,000 net positive on the budget which was good.

I'm going to go a bit into things in a moment about long-term picture. In terms of Q1, since we're in Q1 now of 2024, we do expect to have a slight miss on some of the numbers because of the hosting issue we had for this meeting. And you know, you can kind of ignore the investments for a moment. That's really just based on market change.

So current Board work, we're going to talk in a moment in the next section about the ISOC support, but we've just finished an updated support agreement with the Internet Society. I believe that should be posted on the website, so you can read the details if you like.

We're working on closing some deals this quarter for fundraising. And we've begun to pivot from our more broad-based fundraising approach that we had been taking previously that wasn't bearing sufficient fruit to one which I would describe more as a more targeted one that's to industry segments. Targeted to sort of what are the segments of the industry using from a standards standpoint? Why do they depend on the IETF? And why was that important? Therefore, what are the benefits?

And then we are planning to apply to the first round of grants that ICANN

has. So they created years ago the gTLD program. They had hundreds of millions of dollars that came into the organization. They decided to create a grant fund for that. And the first phase are the smaller grants with the \$10 million grant fund. So we intend to apply for that. But there's still a much larger grant program coming which I'll refer to in just a bit.

Of course, a wide variety of ways you can get in touch with us. No surprises here.

So in terms of finances, I thought it would be a good moment because we're now five, full fiscal years through the LLC being in place to do a quick check-in on what's the longer term. Because if we go back to this, we're often presenting what are the most recent quarter or month-end or year-end. So it's sort of a myopic view, not really stepping back and looking at the bigger picture. So I'll skip through some of the slides in terms of being brief. You can look at them all on the meeting website.

But if we look at 2024 as an example, ISOC is providing about \$7 million. That \$2 million in registration fees are expected. 1.6 million of revenue from sponsors. And a million dollars of donations.

And part of the reason that we talk about these things and we're going through this is we went through a process after COVID talking about meeting registration fees and increasing those. Why do we have fees for things like remote participation and so on. And we heard a lot of things in the community about, well, why do we even need registration fees at all as a source of revenue? Why can't everything be free? And we said, aspirationally, that was an important thing. But there are some challenges to that. And one of the things we were also asked, why can't ISOC just give every dollar that IPR generates to the IETF? Why isn't that possible?

So this explores that to some extent.

First off, thank you very, very much to the incredible support we've gotten from ISOC over the years. This is an important, an amazing commitment. This is all of the dollars that are committed, either that have been given to us under contract or that are now under the new agreement which is through 2029. So that over that period is \$76 million. Thank you very much to ISOC for that over that period of time.

(Applause)

>> JASON LIVINGOOD: So really pleased with that. And that provides a real foundation for being able to do long-term planning at the IETF, to invest in all of the things like improving the tools and processes, you know, continuing to have meetings and so on.

And then, let's look at our income. And this excludes over this period things like investments. Obviously, there have been ups and downs in the stock market. So we're really looking at sponsorship income, registration fees, donations, and the ISOC match.

We can see very clearly a dip primarily related to meeting registration fees during the COVID time when we went full remote, and then we began to have hybrids begin. And you start to see meeting registration fees going back up. So not terrible during that period, but obviously, we saw an impact to that over that time. And I think we've come out the other side of that pretty well from a financial standpoint.

So let's look at this very simple view, and then I believe we have Andrew Sullivan remote who is going to jump in with a slide from ISOC.

But one of the questions we got was: Why can't 100% of our meeting fees paid for by the Internet Society? And one of the challenges with that is there's this thing called the Public Support Test for nonprofits. And the important thing to ISOC, because we're a part of them financially and legally, is that to meet that, they require revenue from sources another than IPR. And one of those sources is the meeting revenues that we get from here. So that helps them indirectly meet their Public Support Test.

So with that, I believe Andrew, we have you remote, if you want to go off mic, and tell me when to go ahead.

>> ANDREW SULLIVAN: I think I have it. Hi, everyone. You can hear me?

>> JASON LIVINGOOD: Yes, we can.

>> ANDREW SULLIVAN: Thanks. There's this Public Support Test, and it's a requirement of the IRS. I won't get into the details on here, but this is an important part of our function. Next slide, please.

And the way that this works is that you got to about a third of your income to be part of this public support. That's how you show you're a charity. And the IETF is part of the Internet Society. So from point of view of the IRS, you are just are the Internet Society. That isn't true for legal reasons, but for tax reason, it is.

So we've been using this facts and circumstances test continuously and successfully since 2007. But if we were to increase the amount of funding that were available from IPR, which would be how it went to the IETF, then that would cause problems for us. Next slide, please.

So the thing to understand is that this is a very complicated calculation. It's not something you can just do on the back of your napkin because it's this five-year, rolling number. And you can see, it fluctuates somewhat.

One of the things that happened is there was a big contribution to the IETF from the Internet Society, or from the foundation really, in 2018. That's rolling off. So you can see, like, there was this big drop around 2015 to 2019. That's rolling off next year. So things will go back up. And we'll start to see improvements on this as well. And that's part of the reason for the long-term investment that we try to make in order to keep things even.

I'm not going to go into a lot of detail here because I understand we're short on time. But I'll hang around, so if there are questions later, I can certainly answer them.

>> JASON LIVINGOOD: Thank you, Andrew.

Continuing on, the related question that then flows from that is: Is there a challenge with the tax and ownership aspects of this in terms of us being disregarded entity? I will just say that it's extremely complicated. And any change from the existing financial or tax status of the LLC has impacts. And it is difficult.

So I will say that we are going to study that, but, you know, we know from talking to ISOC that it's extremely complicated, and it would be very difficult and probably not have a perfect outcome to make things magically better from a public support standpoint.

So that leads to what else to do. Because we're sort of at that limit of what you can take from ISOC over time. And the first is to develop a sector-specific approach that I mentioned. And I'm going to give an example of that which is the domain name industry.

Now the IETF created the Domain Name Standards. We create lots of new resource records that drive demand. And all of those things, you know, stave off the rise of alternative naming systems on all of those things. So by extension, ICANN, TLDs, registries, registrars, all of those organizations are likely target segments here, and you know, have a focus to make sure that, you know, there's continued growth in the DNS, continued demand for domain names, and all of those sorts of things.

And in the grand scheme, and I don't mean this as a negative, necessarily, for the domain name industry, but across all of these segments, what we're trying to move people from moochers, in a way, to boosters. People that are just sort of using the standards, making, in cases, billions of dollars, but not contributing back to the organization on which they depend from a

standards standpoint. So we will be creating very targeted messages to go to those segments with DNS being one of those things.

And we are also, in particular, looking for multi-year commitments from those organizations. The ultimate goal is to develop a base of organizations that are contributing, essentially, an equivalent to what ISOC is able to do for us today.

So we are doing that. And we'll, of course, do some of the documentation about some of the challenges that would be entailed in making any material change to the existing financial or tax structures. And, you know, I anticipate having some readout as the next IETF meeting. And then that being a regular readout because the fundraising is really just becoming our main focus at this point.

And I'm sure we'll get some questions later on. So that is it for us. Thank you very much.

(Applause)

>> LARS EGGERT: Warren coming up to the stage to talk about an experiment that the NOC is considering either for Vancouver or another future meeting.

>> WARREN KUMARI: Thank you. Warren Kumari. Wearing my MuckMonkey hat. And also, would whoever who has the Samsung called Tommy's second Sammy please turn it off. You're somewhere over there, and you're squatting over a bunch of channels.

(Laughter)

>> WARREN KUMARI: Don't know what that was.

This is a proposal from the IETF NOC to move to an IPv6-mostly network because we think it's time.

And you might remember us from such presentations as moving from such presentations as .1X to WPA2/3 which we did in Prague, and we're still doing now, and seems better, another than people who turn on their radios and won't turn them off.

So what is this IPv6-mostly thing anyway? Basically, clients that can operate without an IPv4 address signal this back to the network. They include DHCPV option 108 to tell the network that. And then assuming the network supports, it replies also using DHCPV option 108, and the client, basically, just doesn't bother giving it itself an IPv4 address. It can ignore the address

from the network.

Then to reach native IPv6 sites, this client uses v6. And to reach things like GitHub which are v4 only, it uses CLAT and that's 64. So your experience is as though you're using v4 but without using v4.

Legacy clients which don't do IPv6-only, they simply don't include option 108. And they get the v4 address just like they do currently.

However, as part of this proposal, we would also like to move the IETF SSID to be using RFC 1918 space, and we'll provide NAT44. That will make the network look more like what users actually get and also what developers get most of the time.

We found some people's laptops, especially enterprise networks, if you give them a v4 address, they get frightened and confused.

(Laughter)

>> WARREN KUMARI: So however, if change scares, don't worry, it scares me too. We will, for the foreseeable future, continue to provide an IPv4 network with public IPv4 -- sorry, public v4 addresses just like we do currently.

So why am I mentioning all of this now? We're not actually sure when we're going to do it. But mentioning it now because we build this network for you, and we would like feedback. So please come and tell us why this is a bad idea. Why you think it's not something you want to do, et cetera. That's it.

(Applause)

>> LARS EGGERT: I guess you want the feedback by email, ideally. Given that most people prefer that strongly to other participation channels. What's the NOC? Is it ticket? No, support? What email address? Warren is going to send out email to everybody. Excellent.

Right, which brings us to one of my least favorite bits of this. When Vint mentioned that we've been around 50 years. And that means that some of the early participants, and unfortunately, some of the not-so-early participants are getting older and some of them pass on.

So we have two participants that we want to recognize today. And I want to ask the people that are going to give a brief note about each of them up on the stage. And we're going to do a moment of silence for them afterwards.

>> KAREN O'DONOGHUE: Okay. I'm honored and obviously saddened to

be here tonight to talk about Dave Mills who passed away earlier this year.

So for most of us, Dave Mills was the inventor of the network time protocol and the expert on network time synchronization. But he was actually a lot more than that, obviously.

He earned his Ph.D. in computer science from the University of Michigan in 1971. He worked in academia and industry prior to joining the faculty of the University of Delaware in 1985.

He was involved in the early DARPA projects that led to the Internet and to the IETF. He was Chair of the Gateway Algorithms and Data Structures Task Force, which was actually the precursor to the IETF and the IRTF.

He published 27 RFCs from 1981 to 2010. And these went beyond network time synchronization to Internet names, routing protocols, and authentication schemes. He designed and implemented the Fuzzball router, several of which were part of the original core of the Internet. And while he retired in 2008, he continued to teach and pursue research interests since then.

So for me personally Dave Mills was the original Internet gray beard. I first met him in the early 1990s. And I was working on a project that was using NTP in real-time systems, and I was funding research to support him. And so over the course of the project, I would drive up to the University of Delaware in Newark and make my way to his office armed with my detailed plan for the agenda for the day. And then I would sit across his desk from him and he would proceed to tell me lots of really interesting and important things, very little of which were on my actual agenda. I often wished for a tape recorder -- this was the 1990s, as you recall -- so that I could remember all the important bits that I had missed along the way.

I was only a few years out of university myself, and I felt a little bit like Alice in Wonderland when I went to see him.

For those of you who know him, he was quite the personality. He was passionate about computers and clocks. He liked to show off his latest projects in his lab, and he liked to tell stories of driving his season clocks down to the U.S. Naval Observatory in Washington to calibrate them.

He liked quirky names like Fuzzball routers and falseticker clocks. And he often drew on the words and images of Alice in Wonderland and the Wizard of Oz.

He also held strong opinions. He had a disagreement with John Postel about the use of PDF in RFCs. In his opinion, ASCII was not just rich enough

to properly represent mathematical equations and graphs for the network time synchronization protocols.

The agreement we made with him to get NTPP4 and the Autokey RFCs published was that we would handle all the formatting and tooling and he would provide the text and review. He was fighting for additional formats for the RFCs long before the IETF was ready to cross that bridge.

He had poor eyesight his whole life, and he eventually went blind. But he last came to a physical IETF in November 2004. While he didn't walk the halls in recent years, he did keep an eye on things, especially the NTP working group. And he would pop up every so often to inform us of the errors of our ways.

So he was one of the early giants of the industry, and he will definitely be missed.

>> LUIGI IANNONE: Hi. Very sad to be here to spend one minute to remember a person like Fabio Maino who disappeared early February this year. Was a graduate from Politecnico di Torino in Italy, my country as well.

He moved to the States. He spent quite more than 20 years at Cisco as a Distinguished Engineer. Great career. He also contributed, for almost the same period of time, to the IETF, so to this community. He has served an RFC and numbers of drafts, also scholarly articles about SDN utilization.

In the recent years, he did quite some contribution to his working group, especially the scribe part. He understood that this was an important part that should not be left behind as a second thought as we sometimes do, let's say.

And he was one of the main authors of LISP-SEC, which is now mandatory to implement and is an important piece of this technology.

But beyond technical contribution, I think he was a remarkable individual, brilliant mind, someone positive, gentle, always there to help.

He will be missed by me, this community, his community in Palo Alto, and his family to who goes my profound condolences.

>> LARS EGGERT: Thank you, both. Let's do a moment of silence, please.

[Moment of silence]

Thank you.

Okay. Upwards and onwards, I guess.

We are going to talk about the outgoing leadership and move on to the open microphone session. I think the LLC is first, if I -- yes -- remember correctly.

So could the LLC people here make their way to the stage. And if you're remote, maybe turn on your camera, if you can.

If Maja isn't here, she asked that she is excused. She is on travel somewhere in Europe and she wasn't sure whether she had connectivity when the plenary happens. I don't know if we have her or not. Oh, she is not here? Okay.

Am I running this? (Laughter)

>> JASON LIVINGOOD: Do we have any questions in queue? I don't see any.

I see Jonathan Lennox.

>> JONATHAN LENNOX: Is this when I talk about T-shirts? I have to say, I am probably not the only IETFer of this magnitude; and I notice the T-shirt size only went up to 2XL. So I would like to request they go higher than that in the future, especially if you are prebuying.

>> JASON LIVINGOOD: Sounds good. Thanks.

Anyone else? Going once? Going twice? Sold! Thank you.

>> LARS EGGERT: That was good.

(Applause)

Please, to the IESG, could the incoming and outgoing or everybody with a yellow dot or who is about to receive a yellow dot come to the stage, please.

For those of you that are not here all the time, these are the dots we're going to put on people's badges now. And those of us who are lucky enough to have their term end, we are going to rip them off.

But because Jay thought this was too invisible and too small an affair, we also have these giant three-dimensional dots. I choose to believe this is a signal that we are going to go back to Hawaii. But that's just me, Jay.

(Laughter)

So we're going to pass those around, too, so you guys can also see the magnitude of this event here. So let's do that first.

Can the outgoing and incoming directors please sort of do that now? And I'm giving mine to, I guess, you. Thank you. You have a yellow dot already, so you don't need one.

(Applause)

While this is going on, so these are --

>> ROMAN DANYLIW: I need to virtually pass to Deb.

>> LARS EGGERT: Deb Cooley is the new incoming Security AD down there.

(Applause)

Nicely done.

So we have four outgoing members this time around: Andrew Alston in routing, me and Martin Duke in transport, and Robert Wilton in ops and management. I have a slide for each of them.

So Andrew brought some much-needed diversity onto the IESG because he's our first AD from Africa who lives in Africa. And he's also one of the rare cases where we actually have a person from a large operator on the IESG. And both of those things were really bringing valuable input to us. And he's really done a stellar job, and I thank him for his service.

(Applause)

So Rob Wilton taught us all a whole lot about YANG, because I actually thought it stands for "yet another night gone" after doing the reviews. And Rob was also the AD who kept probably the closest eye on the page count for every one, because we have a limit. We said we are not going to review more than 400 pages a week. Rob would say, I only see 200, can I do 200 pages of YANG by Thursday? And we all said okay.

So thank you, Rob, for showing us what YANG is all about.

(Applause)

Martin Duke. He did something that -- he managed close -- we have had cases where people close the working group they don't like when they are

at the end. Martin actually managed to close his area, which is not done very often. But he's also, like -- but he's also, like -- he's taken a lot of things for the IESG that maybe aren't so visible. Like, for example, the ALLDISPATCH experiment we had on Monday. Martin played a big role in making that happen, and he's not been shy of taking other things onto the IESG. So that was really great. Thank you, Martin.

Roman is not leaving the IESG, but he rescued his working groups over to WIT. So it is not completely gone, it's just rebranded. We will do a reverse takeover of HTTP or something like that.

Roman is leaving SEC because he's found a better job over in GEN. Thank you very much for taking that on. I don't know why you are doing it to yourself, but thank you a lot for being there for SEC a long time and doing the Russ Housley maneuver of becoming IETF Chair immediately after. I am looking forward to three terms.

(Applause)

>> ROMAN DANYLIW: That meme is here because at any point we're in a meeting and Lars is pretty much hacking on new code in the Datatracker pushing into production. And by the time we get to the end of the meeting, it's running. The question is: Is it actually doing what he thought it did when he pushed it? But we really appreciate it kind of anyway.

(Applause)

So I wanted to say a few more words about Lars because it's a heroic duty to be IETF Chair. He's been our tenth chair serving for the last kind of three years. But this last role is really one of many years of service, as you know, here at the IETF.

Prior to being Chair, he ran a little working group that had a lot of promise called QUIC. We are hoping it's going to get some deployment. After that -- before that, he served as IRTF Chair for six years. Prior to that, he was TSB AD and he also ran some working groups before that. So this is a long kind of line of collecting, I think, stream managers. I think we were talking. I think ISC is next after a little bit of a break.

>> LARS EGGERT: Who's "we"? (Laughter)

>> MIRJA KÜHLEWIND: IAB Chair. (Laughter)

>> ROMAN DANYLIW: But in all seriousness, it's been an unprecedented three years that Lars has led us through. We are standing here in a room in-person. And for perspective, when Lars started in 2021, we were four

meetings deep into being virtual with no idea whether we were going to get back together, when that would occur.

He had a team of ADs who were ADs for, like, over a year and they had never been to a face-to-face meeting. And what Lars really pulled off, for lack of a better term, he pulled off the IETF return to office. (Laughter)

So here we are in kind of hybrid, for better or for worse, like all return to office. But the thing that I think I really want to highlight that Lars did, he pulled off all of the good things we got from the remote part. With remote, we pulled in a lot of other new people in the organization and we've been able to keep them. So we have all the benefit of the participants we had before and then the enfranchisement of all the other participants that we have. So that was phenomenal.

The other place where we've really benefited from Lars' vision is broadening the perspective of what is the IETF beyond traditional things like routing and addressing. He's really focused on broadening that reach. We have seen tremendous growth under his tenure in SEC and ART, bringing open source kind of closer, and that really increases the impact of what the IETF is doing.

So in short, I just want to mention across all of Lars' leadership roles, there's been this common thread of dedication to getting it done, looking forward to the vitality and long-term success of both the IETF and the multistakeholder Internet governance model.

So, Lars, thank you. Really, what you've done, we will really be resting on everything you have done for us for a long time and how you have transformed the organization for us. So thank you.

[Standing ovation]

>> LARS EGGERT: Thank you. Those are very kind words, but there was a lot of lies in there. (Laughter)

A lot of it is actually the community, right? So I got lucky with you guys who do great work and I get credit for almost no reason. So thank you.

And that brings us to more pictures. This is the entire IESG for this particular open mic session. It has all the incoming and the outgoing Area Directors. The outgoing ones are probably going to go straight to the bar afterwards, and the incoming ones are going to worry about tomorrow and Friday.

So if there's any questions for the IESG, now is the time.

>> Are we passing dots now?

>> LARS EGGERT: You haven't passed dots yet? We are definitely passing the dots.

>> ROMAN DANYLIW: Nobody gets this one.

(Laughter)

>> ORIE STEELE: I'm Orie Steele. I'm incoming ART AD.

>> FRANCESCA PALOMBINI: Francesca Palombini, WIT AD.

>> TOMMY PAULY: Incoming IAB Chair.

>> MIRJA KÜHLEWIND: Mirja Kühlewind, Outgoing IAB Chair.

>> MAHESH JETHANANDANI: Mahesh Jethanandani, incoming Ops AD.

>> ÉRIC VYNCKE: Éric Vyncke, staying Internet Area Director.

>> ZAHED SARKER: Zahed Sarker, one of the last Transport AD.

>> MARTIN DUKE: Martin Duke, professional Transport AD.

>> ROBERT WILTON: Rob Wilton. I was a Management AD.

>> LARS EGGERT: Lars Eggert, outgoing IETF Chair.

>> ROMAN DANYLIW: Roman Danyliw, outgoing SEC and incoming GEN.

>> GUNTER VAN DE VELDE: Gunter Van de Velde, incoming Routing AD.

>> ERIK KLINE: Erik Kline, Renewing INT AD.

>> JOHN SCUDDER: John Scudder, routing enthusiast.

>> MURRAY KUCHERAWY: Murray Kucherawy, continuing ART AD.

>> WARREN KUMARI: Warren Kumari, the real ops AD.

>> JIM GUICHARD: Jim Guichard, continuing Routing AD.

>> PAUL WOUTERS: Paul Wouters, continuing SEC AD.

>> LARS EGGERT: Did I forget anything else? Yep? Yes, I did. I'm sorry. Andrew and Deb. Please go ahead, Andrew.

>> ANDREW ALSTON: Andrew Alston, outgoing Routing AD.

>> DEB COOLEY: Deb Cooley, incoming SEC AD.

>> LARS EGGERT: I'm declaring we are done with introductions. Excellent. Thank you for reminding me.

Open mic. I see Arnaud in the queue. Please go ahead.

>> ARNAUD TADDEI: Yes, hi. Arnaud Taddei, Broadcom.

So I have a question regarding the interesting Dispatch session on Monday. It's really a clarification question. I emailed and received feedback. So the question is: Are you going to publish back this feedback and share what has been the learning from that? And what are you thinking about it, or you keep it for yourselves? And we discover what the next steps -- so the question is: What's the plan?

>> ROMAN DANYLIW: So the plan going forward from the perspective of the IESG, we talked about it, is that this is the start of an experiment really. We're going to run it one more time at least at the next face-to-face meeting. We are collecting all the feedback from the community. We're going to tune it a little bit. We don't know what the shape of that's going to be. The feedback continues to come in. We're not going to make any decision on the existing Dispatch groups until we try it at least one more time.

>> LARS EGGERT: Anything else for the IESG? Okay.

Abdussalam, go ahead.

>> ABDUSSALAM BARYUN: Yes, the open office for the AD or the areas?

>> LARS EGGERT: I'm sorry. We didn't get the catch the beginning of that. You're talking about the office hours?

>> ABDUSSALAM BARYUN: Yes, the office hours on the agenda for the meeting for the ADs, these are the area open hours? I cannot remotely access the session, let's say, or the room, let's say, if I want to ask some questions or discuss with an AD some issues. I'm not -- remotely I cannot do that. If there's a way, please tell me. Thank you.

>> LARS EGGERT: No, that's a good suggestion. I don't think we have, frankly, thought about that. But we can certainly look into making Meetecho available. It requires probably a bit more planning with the Secretariat and Meetecho teams, because we need a -- might have a few more rooms, but

that should be doable. I don't know if I can promise it for Vancouver.

>> Some office hours are using WebEx, but maybe not all of them.

>> Any AD, right? Let's be sure that any AD, speaking for my colleagues, are approachable. We're human beings. We have an email address that you can find in the Datatracker. You can send an email to us, and we are happy to reply to it and to get one-to-one with WebEx or Zoom or whatever you want. We are human beings after all, right? So don't hesitate.

>> Hi, good evening. (saying name) from India. I don't know for whom, it's basically to all the leadership, this is my first IETF meeting. And I enjoy it. It is very different.

But my question is really, I've been part of IEEE, ISO actively for last -- more than a decade. And I wanted to feel what exactly what it is about this thing, that's why I'm here.

My only question is that -- so I do initial infrastructure ICTIC. IETF is pervasive. Across use cases, across problems, IETF RFCs are pervasive. But we do not have any structured lateral relationship with any other global SDOs. We do not -- we pick and choose out of our own limited knowledge of some IETF RFCs for building our own stacks for whatever use case, whatever requirement may be. We do not have insights into what are the latest and the upcoming or the current, but the best RFCs for any particular use case or for any kind of particular requirement.

Do we have some kind of a structure that people can refer to or maybe we can have collaborative thing where we can have some structure given, guidance to the other SDO stakeholders? How to deliver IETF's latest work done and --

>> I can take this over here. So actually, the next session we'll have is going to be the IAB Open Mic session. So maybe it will be a little bit more appropriate there.

But I can answer it here. So the IAB is responsible for handling the liaisons with other SDOs. We actually have some office hours for that during lunchtime tomorrow. So please feel free to come by. Then we can talk about how the liaison relationships work, when we have formal ones, when we can do other things instead of that.

We also -- and the IAB also handles outreach and other programs like that. So I think that's a discussion we're happy to have.

>> Thank you.

>> Can I just ask a clarifying question? Are you saying we basically write a lot of RFCs, can we make it easier for people to find those RFCs and which ones they should be looking at? Is that the question?

>> Yes, so suppose I'm working on a problem. I'm trying to build a stack, which is basically doing a couple of different already developed standards, RFCs and all that. I do not know which are the best ones. So by the time it has happened, I picked up an old generation of IPv6 or maybe whatever, there are already new ones available or which are the same and we have no idea.

So if we have some kind of informative guideline, something for outsiders of the very good, meaningful community, that would be really helpful for other geo stakeholders.

>> LARS EGGERT: One thing we're doing over on the LLC side is that we're going to do a heavy remodel of the RFC editor website, which will make it much clearer what the relationship between RFCs and make it easy to pick the right one and not an old one, for example.

The other thing I was going to say is that the IETF is a little bit different than other SDOs in a sense that we're building -- I think Olof Kolkman has this slide. We are basically building LEGO pieces in the IETF. And you can assemble them into an Internet and you can also put them together and build a network with them or you can do something else. We're pretty good at defining the LEGO pieces, but we are not really doing the cathedral-style architecture of "here's how you build an entire system out of it." And it's not really the style of the work we do. That isn't to say we couldn't try if somebody -- that means somebody comes and says, Look, this is how I think I'm going to assemble these pieces. Does the IETF have an opinion about whether it is a good way or a bad way? We could even then think about putting out informationally that says this is how it's been done over here to solve this use case.

>> WARREN KUMARI: Yeah. So Warren. So we also used to fairly often publish use case in sort of architecture documents which did a little bit cover what the use case for this protocol is or how these bits kind of fit together. We haven't been using it as much as we used to. At one point, we sort of decided not to really progress those as RFCs, which maybe is something we should reconsider.

>> Maybe we can do some pilots together for some system that has a particular use case system architecture and what would work best to give us the best optimum output. I'm just thinking out loud. Sorry for being too ambitious.

>> LARS EGGERT: It's good to be ambitious. Talking about it certainly would be great. Thank you.

David.

>> DAVID LAMPARTER: David Lamparter. This was just kind of brought up. It is unnecessarily difficult to find the set of current RFCs relevant to some specific topic. I have gotten used to it being this way, but I don't think we are doing a good job of this and we could improve there.

>> On this point, I agree. I think we could do better.

>> LARS EGGERT: Again, I think the tools team is looking into making RFCs better searchable for various techniques, and so this is an ongoing sort of effort.

In the meantime, I am going plug -- what's it called? Rfc.fyi? Which is not a tool that is seen, I think, by Mark Nottingham's little search engine. That is actually quite good. So if you type it into your browser, you can hit it. Is it that? Okay.

So try that in the meantime.

Rod.

>> ROD VAN METER: Hi, Rod Van Meter. I'm reluctant to even bring this up because it's probably been brought up long past in the history of the IETF.

>> LARS EGGERT: Don't let that stop you. (Laughter)

>> ROD VAN METER: But the stenographic -- the live stenography here is really fantastic. It's a huge benefit for people of a variety -- for a variety of reasons, including particularly language as well as hearing impairment as well as creating a permanent record.

But with the advances in automated translation, some of which is being driven by LLMs recently, is there something that IETF is or should be doing to help support bringing in people who are not yet particularly strong in English in a working an environment to help them sort of as an onramp to long-term participation in IETF?

Note that I'm not suggesting that we start providing official support for RFCs in other languages or anything like that at this moment but something to help onboard new participants.

>> LARS EGGERT: Do you have a suggestion? I mean, I want to agree with you but I'm sort of struggling a little bit to come up with something concrete we could try out.

>> ROD VAN METER: That's part of why I was reluctant to bring up, because I'm not sure I have something particularly relevant. But, for example, this live stenography stream here, if it could be streamed to a service that provides real-time translation into other languages, for example, that might actually help some participants.

>> ROMAN DANYLIW: Jay, do you want to come up to the mic to tell us about some of the survey data on language?

>> ROD VAN METER: That was part of why it was on my mind. I saw some of that as well.

>> JAY DALEY: Sure. The survey data asks people about reading, writing, speaking, and listening so that we can understand those and attempts to break it down by regions as well.

So we have two forms of transcription that are being used by Meetecho. We have the human one, which is what we have now, and then the rest of it is machine-based transcription. And that is still being optimized to get a better result from that. We have a lot of technical terminology. We have a lot of fast speakers and other things, and it's going to take some while, I think, for that to be trained.

That is really sort of a precursor to then us having automatic language translation then on the back of that as well for people to be able to use that.

It is our understanding from the data that it is the verbal side of things that is the biggest issue for people, and the next issue then is writing English to participate in a list. And so that's where we'd like to use the technology to adjust that, but we are a little while off being able to do that.

>> LARS EGGERT: Thanks, Jay.

>> ROD VAN METER: thanks.

>> LARS EGGERT: Tianji.

>> TIANJI JIANG: Yes, can you hear? One question, like the Dispatch at the beginning of the meeting, on Monday for the plenary, from there I can learn a lot of things and know, okay, something will be risk along the way.

So the thing I'm asking is similar thing can be applied to the side meeting. I

know side meeting is not official one, but there are so many side meetings along the five days. And then hope maybe the IESG can consider to put a similar session to a side meeting to give five, ten minutes to introduce in a plenary such that participants can arrange their time line. Thank you.

>> ROMAN DANYLIW: So one function, if the intent is a five-minute pitch on work that is potentially in a working group or new start that might be a candidate for the side meeting, might sound good for Hot RFC, which is already happening every Sunday night where everyone gets a five-minute pitch.

>> LARS EGGERT: On the topic of side meetings, the IETF/IESG, we make these rooms available for the community to have meetings on topics basically of their choosing. And we try to walk a pretty fine line to not make them too official because there have been confusions in the past where reports went out that the IETF is starting work on something when, in reality, it happened at a side meeting.

And so one thing that got raised, for example, why don't side meetings get Meetecho? And one of the reasons is that that would make them for especially remote participants very indistinguishable from actual official IETF sessions, unless we completely brand Meetecho differently.

And so it is sort of an ongoing discussion in optimization cycle of how much resources we put towards allowing side meetings to be successful and while still making clear that they're not part of the official IETF process in any way.

And so we are taking suggestions, right, if we can tweak things. For example, we provide the meeting OWLs now, which we didn't. We let people set up their own conferencing system. There are things we are trying to improve, but we also want to make it very clear that side meetings are not official and so there are certain things we are hesitant to provide for that reason.

And I see an empty queue. Anything else? Well, thank you.

(Applause)

It's time for the entire IAB to come up, please.

>> MIRJA KÜHLEWIND: Okay. I'd first like to thank the outgoing IAB members, and I would like to start with Jiankang.

So Jiankang joined the IAB in 2020 so he's there for four years. And he brought a lot of valuable input into the IAB because he always brought in a

perspective from a different part of the world and that is very important for the IAB. Not only that he brought in a different perspective, he also went out and promoted the IETF in all parts of the world. So diversity is really important for the IAB, and so his contribution to it was also very important.

He also joined the program committee of the impact work, which is just picking up, so great contribution there. He's a member of the IETF IANA group. And in general, thank you for joining and for serving on the IAB.

(Applause)

We have this really, really nice IAB and name-branded boomerang and you get one of those. Thank you.

(Applause)

Thanks. And then I would like to recognize Mallory Knodel, who is unfortunately not here. She's online.

She joined the IAB 2022, so two years ago. She was very active on the IAB ISOC policy program and she still will be. We are keeping her there. She was also a (indiscernible) liaison. And in general, she was always very engaged, bringing her view into the discussion, sometimes also disagreeing with other IAB members. But, you know, I think this is a really important part for the IAB, to have different views, different opinions, and to talk through us, and that makes the outcome of what we do in the IAB just better. And I think you have seen that in many, many statements and work we have done over the last two years.

So thank you very much, Mallory, for being on the IAB.

(Applause)

And we will send you also this really nice name-branded boomerang, so at least you get something from Australia.

And then I would also like to recognize Lars, who is also an IAB member, not only IETF Chair.

He was also part of the IAB ISOC program, the IANA program, because you have to be there -- (laughter).

You wanted to be there, okay.

But he was also very engaged in everything and all the discussions we had and he was always taking a stab or holding the flag for the IESG. And that

is an important role, I think.

I have to say, I have personally really enjoyed working with you. Somehow my whole history in the IETF is connected to you. So you were the Transport AD when I joined the IETF and you were my co-chair of my first working group. And so I also enjoyed the last three years together with you. So thank you very much.

(Applause)

Okay. And with that, I will actually hand over to Tommy.

>> TOMMY PAULY: Thank you. Please take my seat, yes.

So before we move on -- I guess I can go to the next slide.

Anyway, so the first thing I'd like to do as the new IAB Chair is to thank Mirja for her four years of service to the community in this role. So four years ago, I joined the IAB at the same time as Mirja. And I have to admit, it was a chaotic time.

For myself personally, I had a four-week-old baby at home, and so that was the worst jet lag I've ever had on the IETF and I was on the same time zone on it.

But for all of us, as we heard for Lars, too, it was only weeks into the global shutdowns of the COVID-19 pandemic. And so those first couple years of Mirja's term as IAB Chair were an unprecedented time for the IETF, but she rose to the challenge and guided the IAB with skill and grace.

What I appreciate most about how the IAB has changed under Mirja's leadership is its commitment to openness and transparency to the whole community. Mirja put the IAB open meeting into the main agenda that we have each IETF week as a place for the IAB to share updates on liaisons and documents and workshops but most importantly to listen and hear feedback from the whole community.

And the technical programs that we have in the IAB are now open for anyone to contribute. And Mirja also helped run six IAB workshops during her term, which I think is a record for any IAB Chair. So I'm very grateful to have learned from her example, and now we'll get to continue that ethic of openness and collaboration.

So I'd like to now present Mirja with a small token of our appreciation. We have four bars of hand-crafted Australian fine chocolates branded for the IAB as "Internet artisanal bars of chocolate," one for each year that she

served as IAB chair.

(Applause)

>> MIRJA KÜHLEWIND: Best present ever.

>> TOMMY PAULY: Thank you. So with that, we have our IAB open mic.

Actually, yes, let's do the introductions.

>> MATTHEW BOCCI: Matthew Bocci, incoming.

>> QIN WU: Qin Wu, continuing.

>> JIANKANG YAO: Jiankang Yao, outgoing IAB.

>> SURESH KRISHAN: Suresh Krishan, continuing.

>> ALVARO RETANA: Alvaro Retana, continuing.

>> DAVID SCHINAZI: David Schinazi, IAB.

>> CULLEN JENNINGS: Cullen Jennings, continuing.

>> MIRJA KÜHLEWIND: Mirja Kühlewind, just IAB member.

>> TOMMY PAULY: Tommy Pauly, IAB Chair.

>> ROMAN DANYLIW: Roman Danyliw, IETF Chair.

>> LARS EGGERT: Lars Eggert, outgoing IETF Chair.

>> WES HARDAKER: Wes Hardaker, continuing.

>> COLIN PERKINS: Colin Perkins, IRTF Chair.

>> DHRUV DHODY: Dhruv Dhody, IAB.

>> TOMMY PAULY: All right. Remote.

Alissa, do you want to start us?

>> ALISSA COOPER: Alissa Cooper, incoming.

>> MALLORY KNODEL: Mallory Knodel, outgoing.

>> TOMMY PAULY: Okay. And Chris is not able to join us tonight.

All right. Any questions for the IAB? Ted.

>> TED HARDIE: Ted Hardie. This isn't a question. I just wanted to say that the IAB Open Session today had a speaker who was absolutely phenomenal in explaining a very difficult set of security problems, and I really appreciated the effort from the speaker. And I wanted to thank the IAB for arranging it.

>> TOMMY PAULY: Thank you.

(Applause)

All right. Going once. Going twice. All right. Thank you very much.

(Applause)

>> ROMAN DANYLIW: Have a great rest of your IETF week.

>> Thanks, everyone. Have a good rest of the meeting. Safe travels home.

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