IETF 104 Plenary Minutes

27 March 2019, Prague, Czech Republic

1. Welcome

Slides: IETF Chair Slides 1-5

2. Host presentation

Slides: IETF 104 Host Presentation

3. Updates

Note: Reports available in the datatracker.

- IETF Chair update: IETF Chair Slides 7-18
- IAB Chair update: IAB report to the community for IETF 104
- IRTF Chair update: IRTF Plenary Report
- RFC Editor update: RFC Series Editor Updates
- Administrative topics
  - IETF LLC and ED: IETF LLC and ED Report
  - IETF Trust: IETF Trust
- NomCom report and requests: IETF 104 NomCom Update

4. Postel Award nominee solicitation

Slides: 2019 Jonathan B. Postel Service Award Call for Nominations

5. IETF 105 Welcome

Slides: IETF Chair Slide 26

6. Recognition

- Retirements and departures: IETF Chair Slides 27-32
- Outgoing IESG: IETF Chair Slide 33
- Outgoing IRTF Chair: IETF Chair Slides 27-32
- Outgoing IAB: IETF Chair Slides 35
- Interim LLC Board: IETF LLC and ED Report Slide 22
- IETF Trust: IETF Chair Slide 34

7. IAB open mic session

The IAB introduced themselves:

- Jari Arkko, continuing IAB
- Alissa Cooper, IETF Chair
- Stephen Farrel, incoming IAB

- Heather Flanagan, RFC Series Editor (not IAB)
- Wes Hardaker, incoming IAB
- Ted Hardie, IAB Chair
- Christian Huitema, continuing IAB
- Zhenbin Li, incoming IAB
- Allison Mankin, outgoing IRTF Chair
- Gabriel Montenegro, outgoing IAB
- Erik Nordmark, continuing IAB
- Mark Nottingham, continuing IAB
- Colin Perkins, incoming IRTF Chair
- Melinda Shore, continuing IAB
- Robert Sparks, outgoing IAB
- Jeff Tantsura, continuing IAB
- Martin Thomson, continuing IAB
- Brian Trammell, continuing IAB
- Suzanne Woolf, outgoing IAB

Matt Pounsett: I have a question for Heather. You mentioned that the PDF software that you need seems to be hard to get a hold of. It surprised me at first that we would need such a thing. I did some quick reading because I hadn't heard of it before, and it seems like this is necessary to support the SVG import. Can you please clarify?

Heather Flanagan: The short answer is to look at RFC 7995 or something like that; the PDF requirements for the new format. What I am looking for is a format that was designed for archiving. One of our requirements of our archiving is that the XML must be included in the document so that it's a completely self-contained PDF file. That inclusion of the XML takes it from just PDF/A-1 to PDF/A-3. Finding software that can do that was very hard.

Matt Pounsett: Right, thank you.

Juliusz Chroboczek: I came earlier to ask a technical question and you didn't take it, and I'm not bitter. I'm not bitter at all. My question was, does it do mathematical formulas?

Heather Flanagan: Oh, that's a good question! That's something I was talking to Henrik about earlier. Right now for the people who are wanting to do mathematical formulas, we're looking at putting it in as an SVG image. We've talked about using MathML. That doesn't--I participate in the W3C's publishing working group, and there seems to be a lot of controversy about how to put mathematical equations in Web documents, for example. Some recommend MathCheck, some recommend MathML, so I'm not really sure what would be the right solution for us. If you have some ideas, could you please talk to me later?

Juliusz Chroboczek: Okay, now I'm bitter.

Heather Flanagan: Okay. That's fair.

Richard Barnes: I'm going to continue the RFC Editor love here. I've been checking out some of the reports that you guys produce periodically on the performance of the RPC, and it seems that you've been

in kind of the lower categories of SLA performance recently, so I just wanted to know what the plan was for remediation there and coming back into alignment with the SLA.

Heather Flanagan: That's a good question, too. In 2016 or so, we recognized that there was going to be a problem when we hit the format transition, because we were going to be doing so much more than just editing documents. We were going to be writing new procedures. We were going to be doing additional training. We were going to be learning a whole new XML, really. We told the IAOC at the time that it was going to take up to 3.25 additional FTE to stay ahead of that particular curve. The response at the time was, we don't have the money to give you 3.25 FTE, but we can talk about one. Okay. We held off on adding that one until we were closer to the transition, and now that one person has been added and has been helpful, but as we expected, this isn't really enough to put us ahead of the curve. Now, one thing I didn't do that I probably should have was, that was 2016-2017, not this is 2019, should I have gone back to the well and said, "Hey, we told you this and this is what you said we could do then; has anything changed?" That, I did not do. So, we are working at a difficulty right now.

Richard Barnes: Do you have an ETA on when we should expect to see green again?

Heather Flanagan: Probably towards the end of this year.

Kathleen Moriarty: Just to follow up on that, what can we as a community do when we have active documents in the RFC Editor Queue to help? Or before that?

Heather Flanagan: The single best thing that the community could do, the document shepherds could do, and the working group chairs could do, is to never, ever just say, "Oh, the RFC Editor will just fix that." I have heard that many, many times, where people said, "Yeah, we knew that was a problem, but we figured you would just fix that. You'll just fix the references; you'll just fix this particular table--we know it's a bad table, but you'll just fix it." The less we have to just fix the formatting and fix the content that way, the better things will go.

Kathleen Moriarty: Thank you.

Ted Hardie: I see no one else at the microphones.

8. LLC Board open mic session

The LLC Board introduced themselves:

- Jason Livingood, incoming
- Gonzalo Camarillo, outgoing
- Ted Hardie, outgoing board
- Glenn Deen, outgoing
- Alissa Cooper, incoming
- Sean Turner, incoming
- Maja Andjelkovic, incoming (via Meetecho)

There were no questions.

9. IESG open mic session

Present on the stage:

- Ignas Bagdonas, Operations and Management Area
- Deborah Brungard, Routing Area
- Ben Campbell, outgoing Applications and Real Time Area
- Alissa Cooper, General Area
- Roman Danyliw, incoming Security Area
- Spencer Dawkins, outgoing Transport Area
- Ted Hardie, ex officio; IAB Chair
- Benjamin Kaduk, Security Area
- Mirja Kuehlewind, Transport Area
- Warren "Ace" Kumari, Operations and Management Area
- Barry Leiba, incoming Applications and Real Time Area
- Terry Manderson, outgoing Internet Area
- Alexey Melnikov, Applications and Real Time Area
- Eric Rescorla, outgoing Security Area
- Alvaro Retana, Routing Area
- Adam Roach, Applications and Real Time Area
- Eric Vyncke, incoming Internet Area
- Magus Westerlund, incoming Transport Area

Absent:
- Suresh Krishnan, Internet Area
- Martin Vigoureux, Routing Area

[Introductions]

David Black: So, Warren asked me to say this. If it's a good idea, blame Warren if its a bad idea blame me. I thought the routing architecture session this afternoon was excellent, very useful, and really good idea to hold it during the week as opposed to usual Sunday tutorial slot, so well done, and thank you.

Alissa Cooper: Thank you. And thank you to everyone involved in organizing that.

Yoshiro Yoneya: I am happy to join IETF in person again. I joined IETF remotely, and during the IETF meeting there was a lot of side meetings I see on the agenda I think was very exciting, but I couldn't participate remotely because no audio or video equipment in the side meeting room. So I hope to give opportunity for the remote participants to join the side meetings.

Alissa Cooper: Thanks. A couple of responses on that. You're not the only person who has expressed this to us. There is a few reasons why we don't provide remote participation for side meetings. One is that we're doing an experiment with side meetings, I didn't talk about it in the plenary deck because its been going on for some time, but you can read about it in the pre-meeting report. Part of the thinking with why we're not providing remote support is we are trying to clarify some of the distinctions of what is an official IETF activity with full support vs what is an organized activity by the community itself. We've had some

issues in the past with confusion around what's a real BoF and if people just organize a side meeting that looks enough like a BoF they start to tell people they had a BoF. That was creating some difficulty for us. So that is part of the reason why we make the rooms available but don't provide more support. The other is just the contention for MeetEcho, and we've signed up for a certain level of support with them and there are many many rooms in which they are providing an amazing service and so adding rooms factors into the kind of service we can get. Not to say it's not possible, but that's another factor we take into consideration.

Barry Leiba: I'll just make a comment on the first part of that. I don't think we should punish the remote participants to make that point.

Alissa Cooper: I don't think we have been punishing them.

Paul Wouters: I've reviewed a number of documents that were related to YANG modeling and I found that often people put values that are in IANA registries into RFC documents and so you get these incomplete or obsoleted entries of YANG values in RFC's where there really should be pointers to the proper IANA registries. So I think it would be good if there was some steering happening across the working groups to make sure that we don't produce those documents in that way.

Ignas Bagdonas: So speaking of the work related to YANG modeling, and especially the coordination between the work on the separate technology components for models. Yes it is an area that is lacking and that is certainly on my focus. We will see something more tangible happening across the coordination of the model development soon. So from a public perspective this is understood, and there are items to try to address that. But this probably won't be a very quick and simple fix, but at least there is work being done in that direction.

Eliot Lear: We had a good side meeting on IOT onboarding today. And I want to thank Toerless and Kent and a few others for really helping us to try and at least document what we're doing and what is available in terms of capabilities for IOT onboarding particularly for wireless. The side meeting mechanism has been particularly useful for me in a number of ways. One comment that I did want to pass to the IESG and I suspect other community members had this problem too. We really did all pile it on today, and it was hard to get to everything we wanted to get to. I'm not sure how to judge the Wednesday Experiment based on that but it was pretty packed and you sort of had to zig and zag from room to room to get to what you wanted to do.

Alissa Cooper: Yes. Agreed.

Bret Jordan: First I want to thank all of the out-going ADs, I appreciate your service you do an immense amount of work. To those coming in I wish you good luck. I'd like to thank Alissa for all the work done behind the scenes to improve the demeanor of meetings and the IETF work that has been done this week. Compared to the past two or three or four meetings the WG meetings have been much more amenable and a lot more friendly and open. So whatever you have done, whatever the IESG has done behind the scenes I would really like to thank you because as I commented in Bangkok some of the meetings over the past couple, four or five of the sessions have been pretty vile. But this week so far has been really great. And even though there has been some level of disagreement as there always will be, everyone has been more open and more open-minded So whatever you're doing, please continue, and I thank you for that. I have a question. I would like to know what your plans are to drive growth in the IETF

in the form of attracting new people to come in and work on existing work products and also to get people to come to the IETF with their work and have it be done here vs choosing another SDO? Thank you.

Alissa Cooper: Thanks. So just on the first bit, I've talked a little bit of what we've done in the IESG since 103 but I would say that part of raising awareness is creating a conversation in the community about some of these issues so I would turn that back you and others who raised the issue to us at the last meeting and have been continuing to engage on the topic of conduct and behavior and how we work together because I think that's actually probably the most influence thus far is just that people are talking about it, they're more aware of it, they're more cognizant of it when they go to the microphone or when they kick off a working group session. I think we're starting to see the effects of that. As far as growth.

Wes Hardaker: Sorry, I didn't mean to interrupt you. I'm Wes Hardaker, the IETF Guides lead, one of two. I have to say, the number of positive comments I've gotten from newcomers to this organization and get help either through the guides program or just people walking them through the process. It makes all the difference in the world. on the guides. And I think that we'll see much greater retention If people are willing to reach out to the people with a new attendee badge and see how they're doing. This is a really confusing organization to get started in and I encourage everybody to participate and if your able to be a guide it doesn't take a whole lot of time to interact with somebody and you meet them once on Sunday and maybe once later in the week and interact over email a little bit and it makes all the difference in the world so please consider that is one of the best things we can do.

Alissa Cooper: Thank you for the time you've put into that, Wes.

Spencer Dawkins: If I could just respond to that. There's two things that are helpful. One is when new people come here we don't scare them away. The numbers for first time attendees are kind of amazing. We'll see 150 to 250 new people in a meeting but we're not growing by 100 people a meeting. I'm not talking now, but over the past 20 years. We've always had first time attendees and a lot of them bounced off. We've made a lot of changes to make it easier for people to come here and get their feet on the ground and understand whats going on, understand what we do. Understand what we do, and understand how we do it. Step two is help make it easier for them to get things done that they need to get done. The IESG and others have tried an awful lot to come up with ways for people to find each other. For people to have conversations with each other. Whether it's the side meeting experiment that turned into not an experiment. Or HotRFC that's about to not be an experiment. I'm holding my first brainstorming session I announced at HotRFC tomorrow and I'm really excited about that. Watching what other people have been able to do with it, putting groups together to talk and triage what their interests are and say how we can cooperate. Thats been important, too. A lot is new, and a lot done with interaction with the community. You all deserve a big hand on that as well. So thank you all for what you do.

Terry Manderson: A couple of points from my point of view is that when we talk about the tone of the meetings, there is a fantastic line that pretty much says that the culture you have is based on the behaviors you condone. Now that sits on everyone's shoulders. It sits on our shoulders, and it sits on your shoulders, so think deeply about that in the working group meetings, in the efforts that you undertake within the IETF. My second point is that, and this kind of harkens back to something my professor told me as a post grad. You're no longer the customer, you're the product. And as the product, you're the key to the network. And it's not just the network of on building routers and things like that. Its a network of people, so each and every one of you are part of the network. So go back to your organization, and if you want to build the IETF, go and pick that junior engineer, pick that junior developer and drag them along to

the IETF. Facilitate them coming here. Facilitate them learning. Facilitate them contributing and bringing them into this culture and adjudicate the growth of the IETF.

Alissa Cooper: Just a little bit on the question of growth. I think it's important to remember that in sheer numbers of people, we're not trying to maximize that value. We have a consensus RFC-to-be that says maximizing attendance at the meeting is not the goal, and that's important because it keeps us focussed on what the goal is, which is facilitating interoperability and developing the technologies that are going to make the internet work better. That often means bringing in new people and new ideas, but not necessarily more people as the objective. The outgoing IESG has tried to foster more engagement from particular communities. We've had a number of us with other people in the community that we've engaged with to reach out to some of the operators groups and RIRs. I think we've had help from the IRTF side. And ANRW and ANRP bringing in whole new batches of folks from the academic and research communities. It's just been a great effort. And there have been other kinds of smaller engagements. Some know the NETDev conference was here last week. We had some cross-pollination with the Linux kernel developers there. A number of us were there in attendance and gave talks and so on. We're all volunteers, too. We don't have unlimited budgets for outreach nor do we have unlimited time. But we've been trying to do some targeted efforts to talk to particular communities where we think that the engagement could be better. That we could derive more value from them and they from us. So that's one kind of smaller thing we've been doing as well. Next question.

Jiankang Yao: I have my personal suggestion. So ICANN will open new GTLD soon. What I am wondering is the IETF or RFC can be applied as a new GTLD. For example I have probably RFC number one, I have maybe applied RFC two, but IETF I have my name, and everyone can check my name of RFC number of IETF for my RFC content. Also a company for example Cisco or my company CNNIC or some Microsoft; IETF can check any IETF related work by that company. I think there are two benefits. We can easily identify the work. Also socialize RFC more easily. So the second thing is we can increase the revenue of IETF. Because when I first joined IETF around 2005 the registration fee was around 500 USD. Now that has already doubled around 1000 USD. I think if we have new IETF detailed selling names we maybe never needed to increase the registration fee again.

Ted Hardie: Thank you for your suggestion. I want to point out two things very quickly, the Internet Society, which has been our corporate home and a longtime donor to the IETF activity also has another body in it, the PIR, the Public Interest Registry. I think it might be a little bit confusing for the IETF to go into the business of one of the other subsidiaries of ISOC and further, the actual string IETF is a reserve string with IANA when it took up the task of opening the GTLD process, there were a number of particular strings which were reserved, because they were in use by the technical community and IETF is one of those strings and can not be applied for as a GTLD.

Julius Chroboczek: Thank you very much for what you were saying earlier. I'm actually part of the under-paid working class minority you were mentioning, I am a member of academia. I've been fairly active over the last years at IETF. I have my name on six or seven drafts of which four are in the last stages of publication. It's been four years of very hard work I've been very glad for. When I realized a few years ago I was going to get involved, and that I was going to have to come fairly regularly at IETF, I had to ask for extra funding. That's an additional stepping stone if you want to get involved. By academic criteria the IETF meetings are very expensive. If you are thinking of outreach, you might consider something. I think you're aware the fee structure of IETF meetings is not necessarily adapted to academia.

Alissa Cooper: Thank you. So, this is not the body that sets the fee structure, but I think all of those people are still here in the room and heard that. It is something that has been discussed before and we can take the feedback into account. Any other questions?

?: I would like to address the previous speaker. I am from the industry and I spoke to a couple of enterprise customers recently and it is not better for them. What is difficult for the academia I understand, but for the enterprise who are not here by the way. I'm talking about the venders the telcos and other bodies. Who is from finance sector here? Who is from energy sector here? From other verticals. Very few. And they don't come and they don't know about IETF. And if they would know, for them to justify sending people regularly out of production what they have to do would be extremely difficult. I don't have a good answer, I'm sure it's not a new problem. But it does not seem we're converging. Then it causes an issue of representation. Who we mean when we say "the community." Who are we? I don't know. I don't think it's a correct representation of what the real constituencies of those objects connect to those people organization part of the network. Many are not here. So are we missing some feedback loop from some people? Thank you.

Alissa Cooper: Thank you. I appreciate your comments. I agree with you, not everybody is here, and that is in part by design. There is a lot of work that we do that can be done entirely remotely. And we really encourage that in the IETF and that applies equally to people who don't want to show up in person, and also fortunately or unfortunately people who can't afford to come. It's really important to remember to reinforce that. Most of our WG Chairs do a good job reinforcing that decisions get made on the mailing list and so on. But we all need to remember that's a path of engagement and participation in the IETF that is heavily used more so than attendance to the in-person meetings.

Watson Ladd: Hello, I'm Watson. I want to thank you all for the hard work you do. And I'd also like to say that remote participation can get valuable things done. This is the first time I've been to an IETF meeting. And I came here and many people were like "oh, you exist!" They know me from videos and they know me from contributions of drafts. I want to thank you for making it possible to do that. It's really been a tremendous. It's really been a big achievement. Thank you.

Alissa Cooper: Thank you. That is exactly the reaction I had when I saw your badge.

Barry Leiba: And you're not alone. I've met several people who I've known for quite a while on the mailing lists and I'm glad to see that some were able to come to this meeting. I hope many of you can come back, but even if you can't we value your participation on the lists.

Alissa Cooper: Anybody else? Okay. Thank you.