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EVIN ERDOĞDU:

Good morning, good afternoon, and good evening, everyone. Welcome to the At-Large Technology Task Force call on Monday, 13<sup>th</sup> February, 2017, from 16:00 to 16:30 UTC.

Today on the call we have Olivier Crepin-Leblond, Gordon Chillcott, Stuart Clark, Judith Hellerstein, Satish Babu, Dev Anand Teelucksingh, Amal Al-Saqqaf, and Andrei Kolesnikov.

Our interpreters today are Claudia and David.

Staff we have Ariel Liang, Mario Aleman, Gisella Gruber, and myself Evin Erdoğan.

I would like to remind everyone to please state your name before speaking not only for transcription purposes but also for our interpreters.

With this, I'll turn it back over to you, Dev and [Judith], please begin. Thanks so much.

DEV ANAND TEELUCKSINGH:

Thank you, Evin. Welcome, everyone, to the Technology Task Force call. On this call it's for 90 minutes and that's because we decided we had a packed agenda so rather than trying to put two calls this week we said let's try to create a slightly longer call so we can achieve some of our agenda.

On our agenda we do have – apart from a review of our action items – a review of our At-Large Technology Issues page, an update on the FY18

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*Note: The following is the output resulting from transcribing an audio file into a word/text document. Although the transcription is largely accurate, in some cases may be incomplete or inaccurate due to inaudible passages and grammatical corrections. It is posted as an aid to the original audio file, but should not be treated as an authoritative record.*

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Policy Tracking Proposal that we submitted for approval to the Finance and Budget Subcommittee, we have a demo of Mattermost, a group chat solution similar to Slack, and also a overview of Meetecho, a conferencing solution that's used by the IETF, and we'll also be testing the Meetecho conferencing tool at the end of this Technology Task Force call.

Are there any comments or suggestions for the agenda?

I see there's a hand up from Ariel. Ariel, please go ahead.

ARIEL LIANG: Thanks, Dev. I think you know what I'm suggesting.

DEV ANAND TEELUCKSINGH: Yes. Please do.

ARIEL LIANG: About the staff announcement.

DEV ANAND TEELUCKSINGH: Correct.

ARIEL LIANG: Thank you.

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DEV ANAND TEELUCKSINGH: [Inaudible] do the staff announcement.

UNIDENTIFIED MALE: Please just get that. [Inaudible] just get it done.

ARIEL LIANG: Okay. I'm going to do it. Just to let everyone know that we have a new member in the team – Mario Aleman – and he's going to support the TTF from now on and I will be [transiting] to other responsibilities but I will still hang around from time to time. I just want to give the floor to Mario and then he can do a quick introduction of himself.

Mario.

MARIO ALEMAN: Hi, Ariel. Thank you, everyone. As you mentioned, actually I'm very glad to be here as part of the staff. I am a double E with a major in Engineering and I am also part of the staff of ICANN supporting the groups on Evolution Advisory Committee and part of my time I'm also supporting the ALAC and some of the calls of the At-Large and now the Technology Task Force.

I'm very looking forward actually to working with you within the next weeks and learn from you in all this transition. If you prefer to reach out to me in English or Spanish or in whatever language you want, and I'll be basically closely shadowing on the calls for now. Thanks.

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DEV ANAND TEELUCKSINGH: Thanks, Ariel. And thanks, Mario, for that introduction and welcome to the group. I think easily I could say that we on the Technology Task Force look forward to working with you to achieve the goals of the Technology Task Force. So thanks for that.

Let's now look at our action items. Let's quickly focus on the ones that [for] persons are present. I know Glenn is absent today so we will skip those action items related to him. I notice also Seun Ojedeji is also not on the call so we'll skip the action items regarding to him.

"Dev Anand Teelucksingh, Ariel, to create a dedicated page to capture issues relating to Adobe Connect including unclickable links in the AC chat when using mobile." Just to note that after discussing this with Ariel, I've basically split the At-Large Technology Issues page into three sections – Current Technology Issues and introduced another table for Adobe Connect issues. So I will mark that as now the dedicated page is now done.

Regarding the invitation to invite TTF members to join the eXo platform – this hasn't been done and to be quite honest, we have not had a chance to do any testing on the eXo platform's host default server. That's simply due to lack of time and also an inability for volunteers to step up to help do the testing of the eXo platform as a server install. So that's still outstanding.

Regarding the teleconference webinar videos in mp4 format, we'll get back to Mark when we go to the Technology Issue page. Let's just see quickly... Alright. I think those are the key action items actually.

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A lot of the other action items are related to the Adobe Connect and putting those issues that document the issues regarding Adobe Connect on the now the dedicated issues page.

Any comments on the action items or any updates on the action items from anyone?

Okay, seeing no hands raised, let's then move ahead now to the next item which is the At-Large Technologies Issues page. As I said, we have updated the Technologies Issues page to have three things now, and Ariel is sharing her screen so you are able to see the page live. We have a Current Technology Issues, Adobe Connect Issues, and another table for Resolved Technology Issues. So two key issues that we're working on in Current Technology Issues – the LACRALO mailing list issues. I have started doing some small testing and I've [noted] a few other persons like Alfredo also posting some messages to help test the LACRALO mailing list solution. I would say that we still have quite some testing to do.

My only concern is that the warning message that comes up that says, "The message is unable to be translated due to issues" is actually very hard especially in a very long e-mail to discover what exactly that issue is. There's typically the error message, the warning message, is something along the lines of, "Sentence punctuation must be followed by a space after full stop," or something along those lines. And of course in a very long e-mail you have to now figure out where did that error take place. So I want to do some more testing on it and see how I can better identify that issue.

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I see a hand raised. Olivier?

OLIVIER CREPIN-LEBLOND: Thanks very much, Dev. One thing I've noticed – and I don't know whether it's only with me – but when you send a message in English to the English list then you get the translation and the message in Spanish on the Spanish list. When you send a message to the Spanish list, for some reason, I haven't received the English translation. Test from Spanish to English that Alfredo was doing, I didn't see that come onto the English list afterwards. I don't know why or in fact, what I did see was maybe Alfredo tried a second test testing Spanish to English and he sent it to the English list and that didn't work either. It just was sent in Spanish. So there is a bug in that direction.

DEV ANAND TEELUCKSINGH: Thank you, Olivier. Yes, I see also Alfredo also agrees with you and so yes, I was noticing that, too. I wasn't too sure whether to confirm it, but I'm glad to get some confirmation on this because I thought it was something on my end to be honest. So it looks like indeed then this is a bug. So e-mails going to the new transbot ES list aren't being seen on the transbot EN list. Thanks for pointing it out and for confirming it. I didn't want to say something because I wasn't too sure. Thanks for that.

OLIVIER CREPIN-LEBLOND: Dev, just as a follow-up, one of the common mistakes/errors that we find on the LACRALO mailing lists are that people send a message in Spanish to the English list or send a message in English to the Spanish

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list or indeed send the same message to both not knowing which one to send to. Is there an option in the transbot to actually detect – if you send a message in Spanish to the English list then it will actually not distribute it or else send back a warning, or would that be a luxury?

DEV ANAND TEELUCKSINGH: Currently I don't think there is any way of testing. Perhaps I don't know if Mark or Corinna would take the floor on that. As my understanding, there's no way of doing it. What does happen is you do have that potential mix of it being cross posted and appearing as a duplicate. I think indeed that should be noted as a possible bug or something that perhaps maybe some workaround can be done to detect that.

CORINNA ACE: Thank you so much for starting testing and giving the feedback and [even if] these two instances that you've noted with the error message and then also a bug with the direction from Spanish to English. We'll definitely make note of that and talk to the Development Team who's been working on this and make them aware and assess and see what solutions we can come up with from there. But definitely appreciate the early feedback and getting multiple eyes on this project.

And just to give you a bit of an update as well, while we're on the topic, is since we last pushed the test list code live to those lists that you're seeing now, we've also been making some progress on retaining attachments in translated e-mails. They've implemented code in our staging environment that does support retaining common file format attachments including Word documents, pdfs, and I believe txt and jpg

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files right now. That was good progress and we'll be in touch with Dev in the coming weeks about discussing timing of the next updates to those test mailing lists. At the same time also make the team aware of the initial feedback you have, the bugs you've noticed, and the instances you've just reported. That will be really helpful for them to try to continue making improvements. Thanks.

DEV ANAND TEELUCKSINGH: Thanks, Corinna. Thanks for that and thanks for the feedback also, Olivier and Alfredo. Any other quick thoughts or comments or observations?

Let's move on to the next Technology Issue page which is the ability to export Adobe Connect recordings from Flash only recordings to formats like mp4 that could be shared much more easily on mobile devices and uploaded to sites such as YouTube. I noted some of the challenges and one of the suggested workarounds. I just want to confirm whether I've noted the challenges properly.

The two challenges noted – if I understood Ariel correctly – was that the bandwidth necessary to stay connected to the Adobe Connect room to download export the recording which has to be done in real time – so if it's a one hour call, then it has to be online for or downloading this file for one hour to then get the recording and that uploading to YouTube requires a lot of bandwidth, and sometimes staff doesn't have that bandwidth at their location. The second thing was [did] then the ability because it was tying up the machine or browser tab or window to do this download in the background, the ability to do regular ICANN work



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including being on other conference calls requiring them to connect to other Adobe Connect rooms and so forth whilst the download is being done and a possible upload to YouTube is happening in the background.

I made a suggestion on the last call and that was to have a machine at that ICANN office and the At-Large staff remote control that machine to institute the download export to mp4 and do the upload on YouTube on that remote machine. That would alleviate the need for staff computer to be tied up doing this download export. Because I think what we want to do is to basically have all of our At-Large recordings uploaded to YouTube and we do a lot of conference calls a week, easily five or six calls sometimes in a week.

Any feedback on this from Mark or Ariel?

MARK SEGALL: Everyone hear me okay?

DEV ANAND TEELUCKSINGH: Yes. We can hear you, Mark. Go ahead.

MARK SEGALL: Great. We've had some very initial dialog, we've been playing phone tag with our Ops Team the last month because of travel and what's going on. But initial reception is positive. I've taken a note here to follow up here again so I can have a better update when we meet in Copenhagen.

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DEV ANAND TEELUCKSINGH: Thanks for that, Mark. I think that is the easiest workaround to do it – just have a machine at the office, staff can then remote control it and check in on that remote machine when it’s doing the download and doing the upload.

Just to answer Alfredo’s question in chat: “That would limit downloading and uploading calls one at a time?” Yes. Unless the machine has sufficient bandwidth to be able to handle two browser tabs connecting to Adobe Connect rooms at the same time. But yes. It is a challenging aspect of the Adobe Connect exporting to mp4.

Again, I think it’s absolutely needed because right now all of our At-Large activities on conference calls is inaccessible to mobile users – completely inaccessible – because all of these recordings are in Flash and Flash isn’t accessible on mobile devices. Although I do note, yes we do have mp3 recordings. We do have transcripts. But I think it would be far better to simply upload it to YouTube and then have those notes included in the show notes on the YouTube channel and it would be much easier to share on social media and so forth.

I see check marks for that. Any other thoughts, comments, questions, observations, on that?

Okay. The third technology issue – having server resources available to test open source solutions like Mattermost and eXo. This is going back to the challenges of finding volunteers able to host open source solutions or server resources on their hosting platforms and then making it available for At-Large to test. It’s proving to be a challenge. We managed luckily to get help for Mattermost which we will demo

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later but to such as eXo platform has been a challenge. The question was, “Can ICANN assist with providing server resources to help with those such testing?”

Any feedback on this, Mark or Corinna?

MARK SEGALL:

This is one that’s still a discussion topic internally as just concern around... I’ve raised a number of suggestions and everybody understands the desire here, but it’s just checking off those boxes as it pertains to who owns it in terms of Budget and Legal having their concerns of – not that this team would be doing any sensitive data – but what happens if that server that’s provided gets breached or maintain just the logistics around it. So a lot of things that are being discussed on it. It’s an ongoing topic and just making sure we have all those boxes checked before we finalize how to proceed on that.

DEV ANAND TEELUCKSINGH: Okay. Thanks for this, Mark. Any feedback from the group on this?

Okay. Thanks for that, Mark. I do understand, though, the challenges but I think it makes sense to just have that test bed as a regular place where we can just do the testing and then delete when our testing is done. Because it is proving quite challenging because we’ve identified various tools and simply because of the lack of a person skilled enough to install it on their hosting platform and having enough hosting resources to do it is proving to be a bit challenging. I certainly hope to see some progress on hopefully some way forward on that.

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I think those are the three key technology issues. I do notice we had a technology issue that Satish noted regarding dialog quality for conference calls. To be quite honest, I have to double check or whether Satish can answer this for me – and also by Olivier – how we’re going to deal with this quality of call quality issue because it seems to be more with regarding the challenges with Adigo. Should we try to schedule something with Satish on Adigo along with staff to try to sort this issue out? I will appreciate any inputs from either Satish or staff on this.

I’m seeing people chatting. So Satish says yes. Okay, let’s make that an action item then for staff to work with Satish and I guess with the TTF co-Chairs – Judith and myself – to help see how we can do the testing with Adigo. And if anybody else wishes to be included on that, please let me know in the chat and we’ll also include you in that small conference call and testing.

Those are the key technology issues. The Adobe Connect issues, I’ll invite everyone to please note and please feel free to edit the wiki to add your Adobe Connect issues. I put some of those issues that we have documented before regarding pooling, mobile users aren’t able to share their screen, and so forth. All of those things are there. So please add your suggestions or your various Adobe Connect issues on that table.

ARIEL LIANG: Hi, Dev. I can’t raise my hand.

DEV ANAND TEELUCKSINGH: Go ahead, Ariel.

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ARIEL LIANG: I just identified an issue right now is while I'm sharing the screen, I cannot [inaudible]. Now I know [others can] see them. Just to let you know if you're chatting with me I'm not responding because of that bug in [Adigo] Connect which I will add to this page. Thank you.

DEV ANAND TEELUCKSINGH: Okay. Thanks, Ariel. By all means, certainly let's do that and then we can have a special purpose call to look at those Adobe Connect issues and see what we have for those workarounds.

Just to note Carlton's question or comment in the chat I presume regarding the Adigo testing issues: "Would the Adigo provider not have the evidence of the failures?" That's a good question to ask actually and to add to that. So indeed we should probably ask Adigo specifically that kind of question when we're having that discussion with them. So thanks for noting that. I'm thinking yes, but we probably have to ask Adigo for that. But thanks for that.

I think we've covered all of the Technology Issues page. And again, if you or anybody else in your At-Large community has any technology issue, please share it with the Technology Task Force or edit the wiki to add your particular technology issue so then we can look to documenting the issue and then come up with a solution workaround.

Seeing no further comments or questions, let's now move ahead to the next agenda item and that is the FY18 Policy [Tracking] Proposal. That was a [document] mentioned on the last Technology Task Force call.

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Glenn McKnight took the initial effort, and thanks to him [inaudible] for trying to submit a first draft of this in time for the Finance and Budget Subcommittee's call for proposals.

The feedback received is that it needed to be documented a little bit better, and myself, Glenn, and Olivier, spent some time last week to update this proposal. I just wanted to present this proposal now to you. I believe this proposal is now being uploaded by staff. While that is being uploaded, it's linked to it in the agenda. I'll just post the direct link to the proposal.

Let me just go through the overview what the proposal entails. Is the proposal coming up on screen, staff?

ARIEL LIANG: We're solving the issue. There's some issue.

DEV ANAND TEELUCKSINGH: Okay. Perhaps the thing to do is to share the screen and scroll through it. I could probably also share my screen if need be.

ARIEL LIANG: It's okay. I can do that now. It's just if I share the screen, the same bug going to happen again. I'm trying to avoid it.

DEV ANAND TEELUCKSINGH: Okay. I do see something happening. While that is happening in the background, I will just narrate what we have talked about.

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We do have an At-Large Summary page on the At-Large website, and if you go to that Summary page you would see that we have a listing of all of the correspondence issued by the ALAC including advice to the ICANN Board, when we respond to ICANN public comments, and so forth. So this Summary page on the At-Large's website allows for searches by topic keywords. For example, if you want to search for all the correspondence that has been classified under IDN, for example, or under WHOIS, we can do that. And we have all of that policy advice issued by the ALAC since 2003. So we've noted that there was actually two core limitations on this search function. One – often the ICANN Board responses to the advice cannot be found as they are not linked to this policy advice correspondence database.

Often the question comes up and it's very hard for us to cite what is the impact of our advice or correspondence or input to public comments or advice to the Board or so forth. So we've discovered – and actually for me it was something of a eye-opener for me – ICANN does have a page dedicated to this. And I'll copy the link to put it in here – something called a Board Advice page where on that page they have in several pdfs they have how they are treating the advice from the various Advisory Committees – the ALAC, the SSAC, and the Root Server Security Advisory Committee or the RSSAC.

In those pdfs if you open one of those pdfs you would actually see the actual ALAC correspondence on advice to the Board and how the Board actually dealt with the issue or how staff incorporated or how they incorporated responses to public comments in their staff reports and so forth. I think it's that linking of that information in this separate siloed

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page to our ALAC database that we are seeking to have implemented to overcome that.

The second thing we wanted to overcome this was to look at the text of the pdfs in our policy advice. These are not indexed right now so we can't really search... if you wanted to search for a specific wording in a text of a policy statement, you can't do it right now. It's only linked to the title of the Policy Summary page under what topic it's stored under. But if you wanted to search for pen holders, for example, inside of that pdf, you can't find it. So what we're saying in this proposal is, "ICANN to allocate resources to overcome those two limitations."

We expanded on this a little bit more to talk about – this is a short-term measure. This is really a need of a policy management process system that ICANN needs to implement and treat in a holistic fashion. I think the document is fully unsynced so you can read the entire text. I'm not reading the entire text there.

I think I can stop there now and if there are any comments or questions.

Okay. Any thoughts, comments. Observations? Ariel, go ahead, and then Olivier.

ARIEL LIANG: Thanks, Dev. I'll let Olivier speak first.

DEV ANAND TEELUCKSINGH: Thanks, Ariel. Olivier?



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OLIVIER CREPIN-LEBLOND: Thanks very much, Dev. I was going to say if you were going to turn to me, I was going to let Ariel speak first.

DEV ANAND TEELUCKSINGH: Okay. You speak first. But we can't spend too much time.

OLIVIER CREPIN-LEBLOND: Thanks. I just wanted to add just one more thing. One of the big concerns that we have is with the amount of tracking that seems to be now needed or asked for by various parts of the community, the whole thing of tracking and finding out metrics, etc. We need to automate it. That really is a first step towards automation.

I'm personally very concerned with the amount of shuffling of papers and sending of e-mails and the inefficiency with which staff have to move things around and do menial tasks that are way, way, below their pay grade. That's why we really need to push for this and I think this is how we need to market this. It's more of an efficiency drive and it's a first step to having a – as you explained it – a much more integrated policy management process system. But we have to start somewhere and so that really is kind of phase one. Let's get the high grass chopped out so we can see better what we need to do next. Thanks.

DEV ANAND TEELUCKSINGH: Great. Thanks, Olivier. I fully agree with you on that. Ariel?

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ARIEL LIANG:

Thanks, Dev. I'm going to share my screen quickly just to provide some comment on the part about Board response to ALAC advice. If you can see my screen, this is one example on TLDs identified by the GAC and then you can see this is a letter to the Board about ALAC's position on this issue and then you can see the activity feed here shows when this was discussed and how ALAC approved this motion to submit advice to the Board and then this is the submitted version and then you can see on March the 21<sup>st</sup>, 2016, there is a response for the ICANN Board, Chairman Steve Crocker, on this particular advice and then after that there's a response from the co-Chair of the GNSO new gTLD Subsequent Procedure PDP Working Group on this ALAC advice.

So there is a way to reflect the Board action to ALAC advice, but what Olivier said is manual process. It's not automated and just we need to have a dedicated staff member to make sure everything is documented on the website and manually created these entries and links to these documents on other part of ICANN.

It can be [done] now. It's manual. I think there's that [inaudible] in that proposal to figure out a way to make this process more automated so that we reduce some manual work and increasing efficiency.

In terms of other things to search – I think my Adobe Connect just crashed. That's another bug needs to be documented on the issue page. Sorry, just let me pull this Adobe Connect up again.

Another thing can be a search right now and I think can be [done] is if we want to search who the pen holder is for a particular ALAC

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statement or advice, that can be done already. If you look at – I just open Adobe Connect now and let me share my screen again.

DEV ANAND TEELUCKSINGH: Okay.

ARIEL LIANG: Just give me one second. I'm sharing now.

And then you can see on this page for this particular ALAC advice we have documented Alan and Olivier, they're the pen holders for this particular correspondence. So these fields were singled out in the website and then if we want to ask the search engine to incorporate this particular capability to search advice based on the pen holders' names this can be done. But for the content of this advice because it's a pdf upload, it's not going to happen for the current search functionality. We cannot crawl the text within the pdf document. That's the limitation right now.

That's all my comments for now. Thank you.

DEV ANAND TEELUCKSINGH: Thanks, Ariel. I see Olivier has a hand raised so to respond. Olivier?

OLIVIER CREPIN-LEBLOND: Thanks very much, Dev. Ariel, thanks for sharing your screen and for showing us a number of things. Certainly on the Board advice, the request itself – the description of the activity – shows that Board advice.

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What we forgot or in fact what we willingly forgot – is that something? No, if you forget you don't do it willingly – so what we willingly did was to not actually rub the nose of whoever is supporting that page and say that the last update was in 7<sup>th</sup> of October, 2016. That's four months ago. That proves our point effectively. When things have to be done manually, it just gets dropped.

That's one of the things. If we do need to discuss this with Finance, I think that we will be verbally mentioning that. But of course every time we mention it, somebody picks it up and then magically within a week something is updated and it's like, "Hey, look at that. It's all updated anyway. No, we keep it up-to-date all the time." Yeah, right. Thank you.

DEV ANAND TEELUCKSINGH: Thanks, Olivier. Any other thoughts or feedback on this? Going once.

Thanks for this. Just an observation, though. I'm thinking that what we're proposing is actually a very modest request and again, it's really a first step for ICANN to really take this in a more holistic manner. In effect, it's hard to summarize but I guess in effect, if we were to go back in time and go back in time to the early 1990s or mid-1990s, the various workflow and technology processes used by how we generate comments and send comments and so forth hasn't really changed since the mid-1990s. We use mailing lists and basically e-mails that we copy and paste to send to each other within ICANN and the different parts of ICANN. Again, I'm just thinking a more integrated approach is sorely needed. That's my short sum of it.

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I realize we are falling behind in time a bit here so let me do something very quickly and that's a quick demo of Mattermost. I'll try to do this in about 10 minutes.

Perhaps can I share my screen then? I will share my screen. Let's see how this works. Okay. Can you hear me now because I think I have to disconnect momentarily while the plugin had to be installed. Am I being heard? Okay, I'm being heard. Great.

UNIDENTIFIED FEMALE: We can hear you.

DEV ANAND TEELUCKSINGH: Great. Let me just share my screen then. Okay.

Let me just show you what Mattermost is. Mattermost is a group chat solution very similar to Slack, and in fact if you signed up for Mattermost – a link in the agenda where you could sign up and just simply join as a member of the group – it works in a very similar way to again, very similar to Slack. But just to summarize the key differences, the key ideas behind this group chat solution, conversations are organized into channels and I've just created a few channels. For example, I'll put WG:Technology Task force, and when you click onto that you could see all of the conversations within all of those persons involved in that channel. I can reply to a particular quote to particular messages in that channel. So you can have a threaded conversation and also I will get a notification and I just sign in on the website or on my

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mobile phone. There are Mattermost apps for the iPhone and [inaudible] OS and for Android devices.

Once you've entered your credentials on those apps which are free to download, you can [get notifications] on your phone. So you can then see the message and then immediately respond quickly to those messages.

You can also use hashtags for these conversations. In a way, by using hashtags in conversations, you can make it much easier to search for when you try to group conversations or on a particular topic. If you click on FY18, I can see a search here appear on the right-hand side of all of the comments that have been hashtagged with this all the conversation and all the channels where the hashtag was used. So persons can find and search for conversations. So if you use hashtags in a consistent manner like on IDNs, on WHOIS , on new gTLDs, persons can search and then join the conversation in those particular channels.

There's an ability to create private groups. That means such private groups are not indexed between the searches and nobody else would see other than those persons invited to the private group. So you can have conversations privately without fear of it being leaked outside into the wider channels, which is more public. You can also have direct messaging to the individuals directly so if you don't want to have the conversation direct with them you can do so.

That's really the key thing. I'm happy to answer any quick question or observations on this. Any questions or comments? Of course, now

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because I'm sharing my screen I can't see the questions. Can somebody else manage the queue?

JUDITH HELLERSTEIN: Yes, Dev. I can manage the queue. Do we have any questions from anyone? Anyone on the phone bridge have any questions?

Dev, it looks like we have no questions from people.

DEV ANAND TEELUCKSINGH: Okay. Thanks for that.

JUDITH HELLERSTEIN: Wait a minute. We have a question? We have Olivier just raised his hand. Olivier, please go ahead.

OLIVIER CREPIN-LEBLOND: Thanks very much, Judith. Sorry to be jumping in on this, but the idea, Dev, ultimately is it down to replacing our Skype or replacing one of our already existing systems? How would you see that?

DEV ANAND TEELUCKSINGH: Thanks, Olivier. I would say that as replacing Skype for our instant messaging and there's key benefits for using something like Mattermost instead of Skype. One, the search history is preserved because it's essentially administered by staff. We can track the history, we can archive channels, and so forth so we preserve the history. Right now

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with Skype, once you upgrade to a new machine sometimes you lose all your past conversations. So there's a lot of knowledge management when we discuss an issue in the At-Large chat two years ago or three years ago.

Second thing, search – in Skype you can't search across your multiple conversations so this allows you to search – and I probably didn't demonstrate this – but I could have searched for “mobile” and I would see whenever anybody said the word “mobile” in all of the channels. With Skype you can't do that. That's a major limitation of Skype, the search capability. You have to really remember the exact conversation you were having with the exact person you had it and in what Skype group you had it with and when. So you can jump into that and then try to do a search. And there had to be a fairly recent conversation, too. Not too long ago in the past.

[Inaudible] administration, easier to search, and better preserving the history of conversation. I don't see it as completely replacing things like e-mail notifications and so forth, but instant messaging does allow a little bit I think [fast action] about policy issues. And given that it's a way of making things more mobile friendly for conversations. I would still say that e-mail on mobile devices is still not easy to use. I would say chat solutions like this are more mobile-friendly.

So that's my [inaudible] to that. Any other comments or questions?



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JUDITH HELLERSTEIN: We had a comment in the chat from Amal Al-Saqqaf, and she wants to know, “Are the channels connected to the working group’s mailing lists?”

DEV ANAND TEELUCKSINGH: Thanks for that. That is no. But in theory one could build a integration so that when a e-mails goes it appears in a channel. I suppose that can happen that way. Given our mailing lists are also public, what can happen is somebody can just link to that e-mail message in a channel and just have a start of conversation on that in that way.

So the answer is no, but surely connections can be made either by direct integrations or by linking to the e-mails on the working group list. Okay.

JUDITH HELLERSTEIN: Do we have any other questions? There are no hands raised, so last call if you have any questions on this topic.

DEV ANAND TEELUCKSINGH: Okay. Well, I’m not hearing any other further questions. I could probably stop this demo now. But I’d just like to thank [inaudible] from the Internet Society of Trinidad and Tobago for helping setting up this thing on his server. So, thanks [inaudible].

And again, please, it’s very easy to join. I’ll post the link when I stop sharing my screen back in the chat where you could just simply sign on and just password and you’ll be connected to the system. And then you

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could see the benefits of a group chat solution like this. Okay, alright. I can probably stop showing my screen now.

JUDITH HELLERSTEIN: Great, thanks so much to Dev and everyone. Dev, our question is –

DEV ANAND TEELUCKSINGH: Thanks, Judith. I can see the Adobe Connect screen now.

JUDITH HELLERSTEIN: Okay. I do have a question also here, is we have so many of these questions for Mark to take back, and I just was also wanting to know now that Josh has moved on to the Meetings Team, who is our point person on Adobe? Will you be the point person, or is there another person in your office who's going to be the point person? So that we can really get these answers done and locked.

MARK SEGALL: This is Mark.

DEV ANAND TEELUCKSINGH: Go ahead, Mark.

MARK SEGALL: Hi, Judith. That's actually an issue we're having internally. I know that they're working on a replacement, and for the immediate, I'm definitely the point person. If I don't know the answer right away, I can definitely

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get the answer, so I'm working with the team on that and hopefully, we're going to have a replacement for Josh relatively soon.

DEV ANAND TEELUCKSINGH: Okay. Thanks for that, Mark. And I've noticed quite a few comments here, so obviously, the next [conversation] regarding Adigo and so forth, so we shall note that for [further] conversations with Adigo. Thanks for that.

Okay, so our next item on the agenda is an overview of Meetecho. Meetecho is a conferencing solution that's in use by the IETF, and it was suggested that we should probably take a look at this conferencing solution. I will probably turn the floor over to Judith who – I believe two of the persons involved with Meetecho are on the call. So, Judith, can you take the floor?

JUDITH HELLERSTEIN: Yes. We were encouraged to take a look at Meetecho in our effort to find a better conferencing solution to Adobe, and so as the IETF has been using this often and they very much liked it, we reached out to Meetecho to do a little demo.

I'll explain how this will go. The Meetecho team will give a short demo here. We will then transfer over to the Meetecho test site that people have been using and we will then have our demonstration over there, and then we switch back.

We did the test with Adigo and it's very easy for people to transfer over back, so it seemed to work fine in the test run on Friday. But I will then

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just now turn it over to either Alex or to the other people in the Meetecho team, Tobi or others in the Meetecho team to do the demo. Tobi or Alex, I think you might be on mute if you're not talking.

TOBIA CASTELDI: Okay, can you hear me?

JUDITH HELLERSTEIN: I'll call you back. Yes, we could hear you. Yes, we could hear you.

TOBIA CASTELDI: Okay. Hi all, nice to meet you. I am Tobia Casteldi from Meetecho. Thanks for the introduction. I prepared some slide deck in order to present you the demo we're going to run. How can I share my desktop? Here? Okay, share my screen. Oh, I need an extension. That's okay.

JUDITH HELLERSTEIN: Tobi, you could also I guess you could e-mail it to staff and they could put it on if that's easier for you.

DEV ANAND TEELUCKSINGH: Just to answer while Eduardo or I think Alejandro is getting connected, what happens though, you have to download an updated Adobe Connect add-in when you share your screen. So when you do that, you are momentarily kicked out of the Adobe session to download the extension, and then you connect back to the Adobe Connect room afterwards.

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TOBIA CASTALDI:                   Okay.

DEV ANAND TEELUCKSINGH:    I think it should happen just now.

UNIDENTIFIED MALE:           Yes, I think Tobia just got disconnected. Yes, he'll be back in a second.

TOBIA CASTALDI:                Okay, can you hear me?

JUDITH HELLERSTEIN:          Yes, we can hear you.

DEV ANAND TEELUCKSINGH:    Go ahead.

JUDITH HELLERSTEIN:          Tobia, we can hear you.

TOBIA CASTALDI:                Can you hear me?

JUDITH HELLERSTEIN:          Yes, we can hear you.

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TOBIA CASTALDI:

Sorry. Okay, this is the brief description of the demo we are going to propose. We can handle two different scenarios for what concern remote participation inside within the ICANN. We provide [inaudible] remote participation for IETF's face-to-face meetings since 2014, and we are nowadays the offshore contractor for this kind of service.

The other scenario is use of Meetecho for the so-called virtual meetings. In the next slide, we have a view of our – end user can access our software with a simple webpage where a user can enter their own name or other information in order to be recognized, let's say, inside the room.

And once access the room, the browser will ask you the permission to use microphone and webcam. This is because our platform uses the brand new WebRTC technology, and in order to allow people to share their multimedia flows over the Internet, the user needs to explicitly grant access to their own [devices.]

But this is only, let's say, a preliminary permission. Once you join the room, you are muted, your video is hidden and you can decide to start sending your audio and your video in [inaudible] during the call. This is a view of our user interface, our platform user interface.

We have on the left-hand side a public chat room and the list of participants [given] this moment. On the other side, we have the video area where all users' video will be shown, and in the center, we use this central frame in order to show all the tools our platform provides you with.

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This is a brief, let's say, introduction to our platform. As I said, you can use the webcam icon and microphone icon in order to start or stop sending your audio and video inside a conference, or you can decide to stop sending your [inaudible] and let's say downgrade your role to an observer role. This functionality actually is disabled in the version we are going to show in a while, so it's just for the IETF meeting we have [inaudible].

Once you [inaudible] started sending your video and your webcam, the icon changing following on the left pane of your page. You can start, as I said, sharing some application or the entire desktop in order to show other people, as I'm doing right now, [albeit] using Adobe Connect. You can decide to start sending your screen or application running on your laptop or computer by means of the icon you can see on the right of the page.

You can also share documents, or we have collaborative editing tools. It's based on [inaudible]. I don't know if you know this tool, it's a web-based editing tool. Or you can send sites and links to other people in order to send them your [inaudible] on your computer.

You can also decide to switch your view if you need to give more space, let's say to the video part. But this is – sorry for our ugly pages here, this is a different perspective you can decide to use if you don't need to use other tools and you want to give more space to the video part.

Okay, here we have some more information about the user interface. You can, for example, decide to adjust your volume, you have some icons that allow you to reconnect to the audio part of the conference,

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and some other information about for example the bandwidth used in every moment for sending and receiving audio and video.

Okay, then you have a visualization of every part of user interface, you can have an indication of what an icon or a part of the screen can be used for by hovering it and reading the hint on top of the page.

This is a brief description of the role of this [then]. This is like to summarize the current scenario. You are using Adobe Connect and the Adigo bridge phone. In this moment, there are some people connecting to the Adobe Connect user interface and audio bridge accessing the conference by using their own laptop, and other people accessing this same bridge by using the phone through the Adigo conferencing bridge.

What we want to test is this same interaction by using Meetecho as the web conferencing tool. So, the demo scenario we're going to run is the system we described. We still have the Adobe Connect and Adigo interaction on the left, and we'll have the Meetecho bridge and web conferencing platform on the other end.

In this demo we'll connect the Meetecho users to the Adigo and to the Adobe Connect users. Actually, we requested the dial-out from Adigo for our bridge, but I cannot see the incoming call in our system, so I don't know, Judith, can you trigger someone to –

JUDITH HELLERSTEIN:

Tobi, first let me just ask – before we do the switch, let's ask first if there are any questions by people here. Because one of the bugs we



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found out earlier today is when you're sharing your screen, you may not be able to see hands or other stuff.

So, we have a couple of questions. People are asking what we found out about the iOS devices, and maybe Alex and you can talk about the workaround that you were discussing, that you can join through the audio part through the phone and then watch the shared screen.

So, the idea of the sharing of the screen can work with an iOS device, but maybe you can go and explain that, and then I'll give the floor to Dev for his questions.

LORENZO MINLERO:

Yes, the workaround I was [inaudible] over the chatroom [inaudible] participation. So, we can implement a way for people to join through audio through the [inaudible] through the phone bridge basically for Adigo, and so they can either meet within the [inaudible] and then contribute with their own audio, and just watch the shared screen or the slides or whatever is currently being shared by the active participants.

But of course, if I got your question, [inaudible] you wouldn't have the possibility to share your own screen when you are on iOS devices like iPads, iPhones and stuff. Is that your question, Judith?

JUDITH HELLERSTEIN:

It was just a question on the screen, and Alex was commenting about the workaround. So, Alfredo, did that answer that question you posed? And if so, then that'll be great, and then if – oh, "Could work if one

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[inaudible].” It works on desktops, but the question is – I guess the question is on the mobile, if you’re on an iOS mobile, you call in via Adigo but someone will be having to share the screen, and then you could see it? Is that what you’re saying?

TOBIA CASTALDI: Yes, that’s what I’m saying.

JUDITH HELLERSTEIN: Oh, okay. So yes, you can see that. Dev, I want to go to you for the next question.

DEV ANAND TEELUCKSINGH: Thanks. Thanks for the presentation there. My question is, I noticed there was a recording icon or red box indicating that the session is being recorded. So, what’s the final format of the recording? Is it like a [inaudible] of the screen? What is it?

LORENZO MINLERO: Generally speaking, we store – we record individual contribution. So, we can store separately all video contribution, the audio contribution and text chat. And we have the tools to merge all these contributions together in order to produce an .mp4 or .webm recording that can also be for instance uploaded on YouTube and be watched from there.

This is what we currently do, but we usually do for IETF meetings where all the recordings of sessions are [inaudible].

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EVIN ERDOGDU: Lorenzo, excuse me for interrupting, this is Evin. I'm hearing from our interpreters on this call that they're having difficulty hearing you and are having difficulty interpreting what you're saying. Is it possible for you to speak any closer to your microphone?

LORENZO MINLERO: Is this better now?

EVIN ERDOGDU: Yes, it is. Thank you so much, Lorenzo. We appreciate it.

LORENZO MINLERO: Sure, no problem. As I was saying, for the IETF we currently upload those recordings from meeting sessions on YouTube, and people can watch the recording from there. And we also developed a web-based player that is the one that we are currently showing in the screen sharing part of the Adobe Connect tool.

That is that, basically. Just to summarize the answer to your question, we can either produce .webm or .mp4 files, so that contains files that can also be downloaded on whatever device and replayed by your favorite player. We can also use the web-based player we developed ourselves that basically streams the recording live when you are connected to the Internet through your browser.

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JUDITH HELLERSTEIN: Thanks so much, Alejandro. Do we have any more questions before we move over to the demo? And maybe staff can put the link – I see the link is on the agenda site. As I guess [inaudible] we're going to go to now afterwards, but just want to check if there are any other questions before we move over.

Now, so the people on Adigo will be moved over automatically, but if you're using the audio from Adobe, you have to move over yourself to the Meetecho site, login in there. So, that's from what we understand [inaudible]. And Justine's question is, besides the IETF, who else is using Meetecho?

UNIDENTIFIED MALE: Sorry, excuse me, can you repeat? I missed the question.

JUDITH HELLERSTEIN: Alright. Besides the IETF, there was a question asked, what other organizations are using Meetecho?

UNIDENTIFIED MALE: Currently, we are on the [ATM] [inaudible] for instance is using our tool for streaming and recording their calls. Sorry, do you hear me? I was speaking [far] from the mic. Yes, [ATM] [inaudible] is using Meetecho for streaming the [inaudible] yearly conference, and we actually won the request for proposal that they issued a couple or three years ago maybe, I don't remember the exact date.

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And all the recordings are also available on the [ATM] portal and they have the Meetecho logo, and they're officially produced by us.

JUDITH HELLERSTEIN: Okay, great. Since we only have ten minutes left for the call, I think we'll move over to the other site, and so people who are on Adigo only can stay on and they'll keep the audio, and then let's all move over to the link that she posted in the browser and on the agenda on your right. It's the same test room that we've been using the whole time beforehand.

Are people clear with that? We're going to keep the Adobe room open so we record everything.

UNIDENTIFIED MALE: People hear me?

JUDITH HELLERSTEIN: Okay, is that clear, people? I've launched it on my side.

UNIDENTIFIED FEMALE: Okay, hold on.

UNIDENTIFIED MALE: Did you start [on the screen] in order to share the desktop?

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ARIEL LIANG: Just confirming the Adigo bridge has been connected to the Meetecho room and I'm on the bridge right now.

UNIDENTIFIED MALE: Okay, thank you.

UNIDENTIFIED MALE: [inaudible]

JUDITH HELLERSTEIN: Sorry about that. Hopefully people moved over. I know I had a little problem, but I'm going to turn off my video now. Okay.

TOBIA CASTALDI: Hello?

JUDITH HELLERSTEIN: Yes.

TOBIA CASTALDI: Yes, I was saying hello to someone who enabled their own video. So, this is as I say our basic interface, the interface we used at the IETF meetings. But this is all [inaudible] stuff, so we can decide to customize something if needed.

We can choose together to modify a little bit the user interface or other functionality or add or remove functionality you need for the others

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that you don't need in order to feed the – tailor the experience on your needs.

JUDITH HELLERSTEIN: Do people want to test anything? Do people want to raise questions? And as Alex said, if you're hearing Tobi twice, it's because you haven't muted your Adobe audio. Both the speaker and the microphone. I've muted both of those, and I only hear him once.

TOBIA CASTALDI: Okay.

JUDITH HELLERSTEIN: So, if people want to show different things or do different things, let us know. He's put up his phone bridge. I don't know if there are any other questions. So yes, Satish says it works fine. Yes, it works well on the Android because they implement WebRTC.

UNIDENTIFIED MALE: Testing [inaudible]

JUDITH HELLERSTEIN: But yes, and then you were saying that you could also put in a captioning pod in here too so that we could have – if we have captioning, we could have real time captioning, have a [caption] as well.

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LORENZO MINLERO: Yes, of course.

TOBIA CASTALDI: Yes, basically we own the technology and we developed the [inaudible] process from scratch. We are open to any customization that you may want to apply for this interface, so no problem at all.

JUDITH HELLERSTEIN: I guess my only question I had is on the chat feature, is there a way to separate out the chat from the queue controller so that you only have the chat box by itself and not the queue controller?

TOBIA CASTALDI: Not in this current version, but that is something that can basically be implemented in there quickly. So, [inaudible] implement it.

JUDITH HELLERSTEIN: What we usually do is when we save the calls, they save the chat – in Adobe, they save them separately, as a separate link that you can just click on, so I'm just wondering. It would probably be easier if we separate it out so the people can scroll back and just see the chat. And they don't need to see who's on the queue controller.

We have a question – okay, so let me just answer. I guess Amal Al-Saqqaf was on Adobe and not on Adigo. Is that correct?



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UNIDENTIFIED MALE: [inaudible]

JUDITH HELLERSTEIN: Hold on, unless you are... So, I'm answering Amal's question I guess is – right. Exactly. So, for people who need – I guess those people on Macs. So, is that the question we're getting? They either have – don't share the audio. So, people who are not hearing the audio, is it because – oh, some people are hearing it [inaudible]. Some people, we've had the problem that they were hearing audio but then it drops for them. Ariel can hear us, she's on Adigo. Where do we see the hands raised? I don't see it here. Do we see a hand raised? Where do we see when people have questions?

TOBIA CASTALDI: Yes, we don't have a hand raised option like in Adobe. It's only a visual information – if I'm not wrong – in Adobe, right?

JUDITH HELLERSTEIN: Well, yes.

TOBIA CASTALDI: We have this also, we have a different queuing system. I've not talked about this because it's something we use when we use Meetecho at the face-to-face meeting of the IETF. We have [in a] room visualization of the virtual queue that we use to allow people to participate to the conversation for remote. And you can visualize this special interface by clicking on the queue icon on the right. You have a strange [inaudible]

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okay. A strange interface will be shown. This is something that the IETF asked us to develop, and it is something we project in the room during on-site meetings.

In our web conferencing platform, we have of course the same kind of tools, and the requests from users are shown on top of the participants list. So, if you expand the participants list – and in case you are using the official Meetecho interface for web conferencing, you’re going to see the request or the users in that part of the screen. So, it is a sort of queuing system integrated in the participants list.

JUDITH HELLERSTEIN: Great. We have two questions. I know Dev had a question and Alfredo had a question. I don’t think Alfredo is still here, but Dev, do you want to have your question? Oh, and Olivier, you also seem to have a question, so I guess we have three questions.

DEV ANAND TEELUCKSINGH: Okay, can you hear me now?

TOBIA CASTALDI: Yes.

DEV ANAND TEELUCKSINGH: Okay. Alright, so now [inaudible] understanding a little bit of behind this. That is an interesting [method for] the queuing thing. I imagine what you can have as I say in a public meeting, you could have this –

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you see these virtual avatars I assume coming up, queuing in front of the microphone in a kind of Pacman-like interface.

TOBIA CASTALDI: Yes, exactly.

DEV ANAND TEELUCKSINGH: Okay, so that's interesting. But I guess the thing is that – does everybody see this, have that speakers queue icon in the upper right, or is it a particular – so all standard speakers have this, are seeing this and can see the virtual queue?

TOBIA CASTALDI: Yes, all participants can see if it's enabled.

DEV ANAND TEELUCKSINGH: Okay.

TOBIA CASTALDI: In our case, every participant in the room can see it.

DEV ANAND TEELUCKSINGH: Okay. Alright, I think I'll step down just to see if anybody else has any other questions.

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TOBIA CASTALDI:                    Okay.

JUDITH HELLERSTEIN:            Ariel, you have a question?

ARIEL LIANG:                    No, I don't really have a question. I'm just wondering whether one of the presenters can share the screen when we're looking at the testing room, because it's probably more helpful than looking at the slide that doesn't change. But if it's difficult to do, then maybe we don't need to do that.

TOBIA CASTALDI:                You want to try to share your own desktop? I can stop sharing my desktop.

ARIEL LIANG:                    No, I'm just wondering whether one of you can –

TOBIA CASTALDI:                Okay. Yes, I just stopped sharing my desktop. Please [have in mind] that for sharing your desktop, you need to install an extension, a plugin for the browser if you are using Google Chrome. Firefox doesn't need this special extension because our application is registered on Firefox and you can start sharing your desk without any further step to accomplish.

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JUDITH HELLERSTEIN: Great, thanks so much. So, the hum feature – because that’s what IETF uses – shows you are agreeing with – it’s like the Adobe version of a checkmark is what I understand.

TOBIA CASTALDI: Hum is just something the IETF people use for let’s say voting, for deciding about the discussion they’re having. So, inside the IETF, I don’t know if someone is [expert] or have already participated in the IETF. They usually ask to hum if one is in favor or against something.

So, this is a customization we add to allow also remote participants to participate in this humming.

JUDITH HELLERSTEIN: Okay, great. We are going to lose the translation on Adobe for people who need Spanish translation, because we’re already past the extra time. But if people want, they can continue a little bit longer, we’re just going to have lost the Spanish translation. But I don’t think we had anyone really needing it right now.

Do we have any other questions on here from people? We had questions about changing from speaker to observer, but I think you had said that for this test one, we were all speakers, but that you can have a speaker and observer.

TOBIA CASTALDI: Yes, the difference between speaker and observer is that speakers are able to transmit without the need to ask permission their own video

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and audio. Observer on the other hand have to explicitly ask permission in order to speak.

So, if you're a speaker, you can enable and disable your audio, your video and start sending it. In case you are an observer, you have to enter the queue and raise your hand and enter the queue, and the moderator, the session moderator has to allow you to start sending your audio or video.

In this version, in this demo, for simplicity we are all speakers and the observer role has been disabled.

JUDITH HELLERSTEIN:

Thanks so much. I had another final question. Can people using screen readers see everything? Can they see the chat? Can they see what's in the screen what's being presented? Can they read the presentations or the files that are being presented in the middle field while you have the sharing of the screen?

TOBIA CASTALDI:

You mean at the same time? You want to see [inaudible]

JUDITH HELLERSTEIN:

No, I was wondering if people with screen readers who are blind or using screen readers, are they able to see, to have the screen – can the screen readers read the chat, can the screen readers read the presentations?

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LORENZO MINLERO:           Actually, we don't have a [certain answer] about this. We can investigate about this and let you know for sure.

JUDITH HELLERSTEIN:       Yes, because that's what I –

LORENZO MINLERO:           We never set this under this condition.

JUDITH HELLERSTEIN:       Right, because I had understood I think that IETF has some people who are blind or low vision, but that was just my question about that. And I think we have – right, so the question I guess from Alfredo is that, are you ADA 508 compliant? Which is basically –

LORENZO MINLERO:           No, we don't explicitly work about this.

JUDITH HELLERSTEIN:       But you can investigate to see, you can investigate and get back to us whether people with screen readers can see. I know in Adobe they cannot, so that's why. In Adobe, they cannot.

LORENZO MINLERO:           I don't really think so, but I can investigate.

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JUDITH HELLERSTEIN: Right. Now, are links clickable in the chat?

LORENZO MINLERO: Yes.

JUDITH HELLERSTEIN: So that if you punch a link in, it will bring you to another site?

LORENZO MINLERO: Yes. [inaudible] Can you hear me? Hello?

EVIN ERDOGDU: Hello, yes, we can hear you. I think Judith may have dropped.

ARIEL LIANG: Yes, we can hear you.

LORENZO MINLERO: Okay, yes.

JUDITH HELLERSTEIN: Yes, my audio was gone for a moment. I think you had – you came up with –



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LORENZO MINLERO: [inaudible]

JUDITH HELLERSTEIN: Yes, you said [slow feed] and then we lost you. So, I guess the question is, can you do surveys?

LORENZO MINLERO: Yes. We have a polling tool that allows you to create multi-answer questions on the fly, and allows people to choose one or more of that answers and to send their answer to the server and then display the results to each participant.

JUDITH HELLERSTEIN: So what you're saying is that people could use the survey – you could have everyone respond to the survey.

LORENZO MINLERO: Yes. Actually, not exactly a let's say structured survey. It's something you can create on the fly by means of a [inaudible] in this interface. It's something that unfortunately is disabled right now, but it's something you can configure when you create an event, like the one we are using right now. You can choose to enable or disable the different tools our platform provides, and if you enable the polling tools, as I said, you can create a question and some answers and send them to the current participants.

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JUDITH HELLERSTEIN: Great.

LORENZO MINLERO: This is not a, let's say, multi-question survey. It's just one question with two or more answers.

JUDITH HELLERSTEIN: Yes. Thanks a lot. It seems like we're going to have to – this is a great demo, but we're going to have to end now because we are over by 10 minutes. Because I know we got started late. But it looks really good. And hopefully, also, if you could – would you be able to expand the polling feature and have more questions be able to be...

TOBIA CASTALDI: Yes. We can –

JUDITH HELLERSTEIN: And [inaudible] look into that.

TOBIA CASTALDI: The main goal of this demo for us was to tell you that we can do everything with our platform because we realize [inaudible] so we can modify, customize according to your needs.

DEV ANAND TEELUCKSINGH: Okay.

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TOBIA CASTALDI: Please.

JUDITH HELLERSTEIN: Yes.

DEV ANAND TEELUCKSINGH: Okay. Thanks [inaudible]. As Judith said, we do need to wrap up, because the interpreters have kindly stayed on even for the additional minutes. So, I would like to just thank the interpreters for staying on for that extra 10-15 minutes after our 90-minute call. So, thanks to David and Claudio.

And thanks to all of the Meetecho team here for this interesting demo for this. It was actually very interesting. I would also probably like to see, just also see how this recording was handled. Maybe you could share the link with us on the mailing list or via Judith to see how the recording of this session was done.

TOBIA CASTALDI: Okay. Thank you so much for your interest, and we'll send you the link to the recording as soon as possible.

DEV ANAND TEELUCKSINGH: Thank you. So, I'd like to now formally [inaudible]. Thanks again, Judith, for sharing this part of the session, and I'd like to now thank everybody for the Technology Task Force and ICANN staff for attending this 90-

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minute call. Take care, have a wonderful morning, afternoon, evening, night, and this call is now adjourned. Thank you all. Take care, bye.

LORENZO MINLERO: Thank you, bye.

EVIN ERDOĞDU: Thank you all. The meeting has been adjourned, thank you very much for joining. Please remember to disconnect all remaining lines, and have a wonderful rest of your day.

**[END OF TRANSCRIPTION]**