CY 2025 NIEMOpen Business Architecture Committee Meeting (NBAC)-20250327_125523-Meeting Recording

March 27, 2025, 4:55PM

47m 22s

◉ **Sullivan, Stephen M CTR JS J6 (USA)** started transcription

TK **Thomas Krul (NBAC Co-Chair)** 2:16
Oh good.
Mic. Check. Steve, how's my mic sounding?

Sullivan, Stephen M CTR JS J6 (USA) 2:25
Happy.

BB **Brad Bolliger (EY)** 6:07
Good afternoon, everyone.

TK **Thomas Krul (NBAC Co-Chair)** 6:11
Good afternoon.
Steve, I guess we'll start in couple minutes.

Sullivan, Stephen M CTR JS J6 (USA) 6:25
Yeah, that sounds good to me.

TK **Thomas Krul (NBAC Co-Chair)** 6:28
People are still rolling in.
Yeah, I think we'll start at 1:04.
People are still logging in.
OK.
I think we can probably begin, Steve.

Sullivan, Stephen M CTR JS J6 (USA) 9:14
All right.

TK **Thomas Krul (NBAC Co-Chair)** 9:18

And if anybody joins, he joins.

So good afternoon everybody. Cameron is not in today. So Paul and I will take over the chores that Cameron typically does.

Just a reminder, if you've got any microphones on please mute them until you'd like to speak.

And again, we do encourage you to speak.

So Steve, want take away and start with the agenda and opening remarks besides the ones I just gave.

Sullivan, Stephen M CTR JS J6 (USA) 9:49

Oh, sure.

The normally the update for the name management office is done by Catherine Escobar, but she's not available today.

A couple of the topics we'll talk about is.

One of them is the end back and endec April meeting and.

There, along with the Co chairs from both the NTAC and the NBAC and some PGB members.

And some other guests.

There will be plenary sessions each day for the broader audience of those in the PGB, the NTEC and the nbac, and those links are included here and these briefing slides will be posted.

In the Minutes section of the M BAC repo.

Additionally, all of the documentation.

For the April meetings will be available.

At in the and back repo in a folder that says 1617 April meeting.

So those are all available to everyone.

We'll talk a little bit about the naming and design rules, Project specification draft and the model version 6.0 update.

So we'll get started here.

I've added a few other items.

Informational one is a meeting that.

In a brief that Paul warmly is going to provide for the Cybersecurity Interoperability Workshop and Plug Fest, the links are there available for you.

And these.

These again, will be tonight will be placed in the Minutes folder for.

The March this March meeting and Paul will discuss this a little bit later on during our meeting today.

We just spoke about the April 16 and 17 and back in TAC meeting.

And this link that's shown here will take you to all the documentation for that.

And there's two plenary sessions, one each day that we encourage those that are interested to join, and those will really be summaries of what the Co chairs and others have worked on during the preceding hours and.

What the outcomes will be some of the topics that should be of interest to you as we're going to revisit what the roles and responsibilities of the N tech, the NBA and also the knee management office.

Are and what makes sense going into the future? One of the challenges we have and have had consistency now for a couple years is maintaining enough technical resources to provide.

Updates to the model and other specifications is needed, and we're gonna look at strategies going forward to maintain that through the years.

There will be a calendar invite that's available on the mailing list for the end back that'll shoot out reminders to you for the April meeting, and it'll also provide the links.

Again.

For four teams, for the plenary events.

We also have Paul's gonna speak to the California County Information Services Directors Association out in at Lake Tahoe, California.

The information in links are available here for you.

I tried to convince Paul to drag me along out to Lake Tahoe, but he's resisted that.

And and we have a our next PGB meeting.

Will be the 29th of May.

From 2:00 to 4:00 PM and you should see updates for that.

Coming out on the PGB calendar and again just to remind and back folks that you're welcome to sign up to the PGB mailing list and get PGB notifications.

The only real requirement is that only PGB voting members can vote, can vote on motions during those meetings.

But the link is here for you and it will be published as part of the updates to the calendar, which will push out an e-mail as we get closer to the event. And as we spoke about briefly last time.

We had to cancel the summit meeting originally planned for February of this year,

and pushed it off until October.

And planning for that.

That will start shortly after our.

Co chair meeting in April.

Just a couple.

I'll, I'll let Paul talk to this as we.

As we move forward, but I wanted to bring you up to date on some technical announcements.

The Neem open naming and design roles version 6.0 Project Specification Draft 01 was approved by the project Governing Board. We had some administrative.

Updates.

To perform on the document which included.

A table of contents and I talked to our Oasis representative, Kelly Cicilline.

Just a few minutes ago.

To get a status on it and she's working with.

We're sending an e-mail to Scott Renner.

There was one item in it, an administrative item, but that should be available.

As a document within the Oasis library.

The permanent stage addresses as indicated on this slide and the current version can be actually found.

At on the main.

Branch for the naming and design room, and that link is available for you.

Likewise, we had a vote.

Several weeks ago.

For model 6.0 project specification.

02.

And identified.

A number of things that need to be corrected so.

The specification was not approved.

And the updates to that document have been completed.

It'll eventually be posted to the permanent site.

I have the address indicated and the dev version which is available now to look at.

Is that the link provided?

The process for the next vote of this.

Is that you have to provide a two week notice to the project governing board before

a special majority vote can be held.

So we're going to notify the PGB on the 7th of April and actually commence the vote on the 21st of April, because it usually takes a little bit of time to whip the votes and I didn't want to do that.

During the week.

When we're gonna have our meeting up in Ashburn, VA, with the Co chairs.

So we've pushed off the vote on that till the 21st of April and a special majority vote is a little bit different from a simple majority. You have to have 2/3 of the members approve it.

You can't have any more than 1/4 rejected and the numbers are based on the total.

Pgb members that are eligible.

And abstentions are not are not counted.

But those are two important.

Specifications that the NTC has been working on for quite some time now and.

With by the end of April, for sure, both of those should.

Be approved and available within the Oasis Library. Any questions?

All right, I go back and look at the agenda here.

I think we'll we'll ask a representative from the.

Ntac to provide a brief update on their activities for the past month.

Brad Bolliger (EY) 19:21

Does that leave me as the representative for the intac?

I don't know if I see Scott OK.

Sullivan, Stephen M CTR JS J6 (USA) 19:25

I don't.

I don't.

I don't see Doctor Renner. So Brad, I think it's. I think it's yours today.

Brad Bolliger (EY) 19:31

OK. Do we have a slide that summarizes anything by chance?

Sullivan, Stephen M CTR JS J6 (USA) 19:36

I didn't get any input from anybody, so that no.

Brad Bolliger (EY) 19:39

Roger. OK.

Well, thank you for that.

So we just discussed the updates to NDR and the model.

We have also kind of introduced a couple new folks who I think are on this call.

From the biometrics and and future forensics domain.

So there's interest in how the NTAC supports some of those activities.

We also had a discussion not too long ago with someone from Gen. Hax.

I don't know if we discussed that at the.

Last and back meeting as well to plan the.

To plan a potential hackathon as well.

It was mentioned earlier, I think in Steve's discussion about how we're trying to have more folks.

With technical skills, who can contribute more actively and so actively trying to encourage not just people to get involved, but solutions that can support the great work that other folks are doing here, I think in addition to kind of planning.

In addition to planning the agenda for the code shares meeting in April, I think that is essentially the gist of what we've been working on is some of those revisions to those specifications we talked about, Steve, is there anything else that you think I should add?

Sullivan, Stephen M CTR JS J6 (USA) 21:03

Now I think that pretty much sums up the the work.

I'm not sure the the Members here appreciate just how much effort, particularly by Doctor Renner that went into the naming and design rules, and for Christina Medlin, who did the lion's share of the work on model version 6.0, both of those are going to be.

Brad Bolliger (EY) 21:17

Yeah.

Sullivan, Stephen M CTR JS J6 (USA) 21:30

Centerpieces of Nemo open going forward.

Alright. Thank you Brad. Next.

BB **Brad Bolliger (EY)** 21:36

Thank you.

Sullivan, Stephen M CTR JS J6 (USA) 21:40

Next, I'm gonna ask Paul Romeli to give us a brief update on communications and Outreach subcommittee and any items that he'd like to address.
In his role as Co chair of the Nback Paul Paul.

PW **Paul Wormeli** 21:57

Thank you, Steven.

I'm delighted to be back with you all again.

We've got quite a bit of activity going on.

I want to draw your attention to the the meeting that Steven talked about, which is really an Oasis sponsored event at addressing all of the different cyber security activities that Oasis is involved in and with some guest speakers.

It's a 2 day event.

You can get access to it virtually.

Using the links that Stephen provided to you.

There's some good presentations I'm doing.

A what? They're calling a lightning round.

There's two lightning rounds on the April 2nd to five minute pitches on all of the different Oasis projects that have something to do with cyber security. And so just so you get a picture of everything that's going on, but also there are summary descriptions of a lot of.

Other projects that relate to this general topic, so it's.

So it's a packed two day event and if you you can go to the links that Steven provided and and look at it if you want to dial in for at least part of it.

We also mentioned the California meeting of CIOs.

I was invited by Sado Sonoma County to participate in their presentation to the National Association of Counties.

Couple of weeks ago here in Washington, DC, with their annual meeting where they they meet with their legislators and argue for.

Favor treatment for counties, but they also had a tech forum in which the Sonoma County presented their innovative use of name with respect to the the Knowledge

Graph ontology that they've just named for.

And they asked me to participate and explain name to the.

Assembled nickel audience, which I did and I was very, very productive meeting and that also led to this opportunity to do the same kind of presentation for the California CIOs who gather twice a year in California. And so they're meeting.

In the end of April.

In Lake Tahoe, as they've mentioned, and I'm certainly happy to have Steve come along at his own expense, if you'd like to.

But it's a it's gotta be a beautiful place, of course. But it's it's another opportunity to present the name and and and also to highlight the the work of Sonoma County using name and an innovative way to create the ontology for the knowledge graph in their new crim.

Justice information system.

BG **Bob G.** 24:45
Mm hmm.

PW **Paul Wormeli** 24:46
We're also been working on the webinar for May 22nd.

That you've got to see in the slide of it, you can look at the the gender here we've got you know, some really good speakers lined up already for part of this and we're looking forward to a big attendance.

We asked the Igis Institute as a member of the PGB to host this webinar, and they're doing so so you can go to ijust.org and go to the the.

Like current events tab.

And go there and register to attend this meeting and get the links and all that necessary stuff.

It's it's gonna be a a really.

Concise and direct explanation of of release 60 of of Niemoben and the tool set that's being released in association with it. As you all heard about.

So we'll have the an opportunity to present that in a in a 90 minute.

Session within 30 minutes for Q&A for anybody that's interested.

And we're gonna broadcast this this broadcast. The availability of this webinar pretty widely as being a press release was sent out yesterday and it'll be on social media within the week on all of the name accounts on social media. It just institute is also

promoting this on their.

Social media sites and.

Their mailing list, so we'll have a pretty good.

Exploration.

Who might be interested in coming?

I'm hoping that if we come close to maxing out their thousand person attendance so it will see what if that happens and we're also still working on planning for the fall October meeting on October 8th at the National Press Club.

We're we're just getting cranking on that.

We're having we're there's going to be a shorter than the original plan we had for the reveal.

That we're gonna do in February, but it's still gonna be a training event.

So we can explain some of these new.

Components of of release 6 and also the some more training on the use of the tools that have been developed and particularly the API and the common model format and and the message builder.

So that's that's gonna be a big meeting that the attendance that that's gonna be limited to the 300 people that.

That fit into that building.

So when that announcement is formally sent out, if you're interested, make sure you register for it.

One other thing on this calendar does go to my role as as the Co chair.

I was also asked to provide a detailed briefing of on name open to an organization called Measures for justice.

That's a nonprofit that's been working very hard to build a a national.

All statistical database on on criminal justice operations and they actually go get data from the courts and try to build a sophisticated data set for researchers and operators to use to understand the justice world and and the course of doing that.

They've spent a great deal of work.

Coming up with data quality standards that they urge their counties and others to adopt.

BG **Bob G.** 28:18

Unknown.

Paul Wormeli 28:20

And we thought that this is something that really is relevant to open in a larger sense, so we're.

We're going to try to give them an opportunity to explain these what they've been doing with data quality and look and and grab starting with intac, but then also within have an understanding of what we might be doing to improve data quality 'cause we all know that the.

Data quality is is key to the success of of using exchanges that are.

Reliable and trusted. So we're.

We're interested in exploring that topic and we wanna expose it to all of you to take into account what might be done to have be more helpful in perhaps setting standards for data quality and some of the exchanges that we, we put name to work in so.

That that opportunity will be forthcoming.

And I think that's about all I know, Steve.

Sullivan, Stephen M CTR JS J6 (USA) 29:27

Thank you, Paul.

I wanted to show you a couple more slides that and all of these will be available in the Minutes section of the and back admin git repo.

This is what we refer to as a resources slide.

Which, particularly for people that may be new here.

Or haven't been here a while.

Let you kind of at your own leisure.

Pace go through some of the important repos.

The first one listed here, which says Neem open, is kind of a table of content sheet that will provide you the links to to other ones.

Which include entac and back knee management office.

And then there's also.

Repositories for the model itself and for tools. So as you have time I would encourage you to take a look at.

At it, we spoke a little bit about.

Notices being sent out on mailing list calendars, those calendars.

The links for joining them, if you haven't already, are available here for you and we

currently have two websites, one the main open source website isneemopen.org, and the link is there and the other is the older site.

Name.gov that's still active and available to you.

We also have a slack channel if you're interested in social media sites and then on the far right corner, there's links to some of the current tools that we have and to the.

Draft specifications for psdo one and model version 6.0 and.

Although those will be changing here as they start to move those.

The naming and design roles and the actual model into the Oasis library.

One of the topics that we're gonna be talking about.

Is.

Statements of use during the meetings in April and the statements of use are a prelude for actually becoming.

An Oasis standard.

There be some briefing slides in the in the Git repo folder for that meeting that if you're interested, I encourage you to take a look there in draft form now as we try to nail down the details for the meeting. But essentially what we're gonna be looking at.

At is what's highlighted in yellow here.

That starts with on the blue side, an approved project specification by the PGB, and we're working on Model Specification 6.0.

And then it goes to.

A perspective candidate. Oasis standard.

There's a, but we have to have three statements of use to approve.

Move at that point and then it goes to a public review and then a call for consent.

It's a it's a rather long process and involved, but we intend to take as soon as.

PS PSO2 for the model is approved.

Start taking that model through the appropriate steps to become an Oasis standard, and once it becomes an Oasis standard, we can take it to other standard bodies beyond just Oasis.

But that's down the road quite a ways yet.

Louis, Shunda R CTR JS J6 (USA)   33:21

Hey, school.

Sullivan, Stephen M CTR JS J6 (USA)   33:21

We talked a little. Go ahead.

Louis, Shunda R CTR JS J6 (USA)   33:23

Oh, sorry. We cut a hand up for a while from Brad. I was.

I was trying to catch you at a pause.

TK Thomas Krul (NBAC Co-Chair)   33:29

Yeah, me too.

BB Brad Bolliger (EY)   33:32

Well, thank you everyone.

Sullivan, Stephen M CTR JS J6 (USA)   33:32

OK.

TK Thomas Krul (NBAC Co-Chair)   33:32

Rod, do you wanna go ahead?

BB Brad Bolliger (EY)   33:33

Sorry, Steve, I did wanna add.

I missed an update earlier that when Paul was talking about measures for justice and especially some of the work I just instituted doing and kind of communicating the use of neem with knowledge graphs, I should have also mentioned that I spoke to the National Science Foundation's prot.

Open Knowledge Network teams about 15 to 18.

Teams of researchers who are building knowledge networks.

In a handful of physical and behavioral sciences domains, which you can read more about on their stuff. But I did want to echo that there is some interest and attention from research communities and the ability to kind of inform more stakeholders than maybe we have previously and are.

Starting to get some interesting attention from researchers in a handful of domains.

Thank you.

Thank you.

Sullivan, Stephen M CTR JS J6 (USA)   34:30

Thank you.

One of the one of the interesting things that came up in my discussion with Kelly from Oasis today was we were discussing.

Potential statements of use.

And I mentioned her that Jim Cabral had a couple that he was interested in pursuing, but I also asked her whether or not your project had to be.

Creating a message specific.

Or iepd.

As the outcome of your project, the answer was no.

It's just using components of the model and it not breaking your project and I specifically asked about some of the work that ernston Young was doing in Simonic County and Kelly seemed to think that that was more than appropriate to use in the use case, so that might.

Be another use case, Brad, that we can consider.

Once we.

We have PSO2 approved and in the library along with some others that we've been doing current work on. But as long as.

BB **Brad Bolliger (EY)** 35:34

Yeah.

Sullivan, Stephen M CTR JS J6 (USA) 35:44

It doesn't. You know your project isn't broken by the new new model specification.

That's that's apparently an appropriate use case so that we can pursue those, and we have a few of those that are available to us the only.

Other thing I'd like to bring up for the group is.

Last time Christina Medlin spoke to.

API 2.0 and that's going to replace.

Some of the functionalities of some of the tooling that we have.

Like the staff Sergeant tool that you might be familiar with.

Or contessa and those slides are included.

In this brief, they just list those items that the API.

Will provide functionality for, so if you're interested, I recommend you take a look at those slides.

The piece that will and and this should all be completed sometime by mid or later may the one piece that will continue and needs more work is.

Is this model management piece which really?

Is not a user's function, but more for the developers and updators of the model itself to automate some of the tasks of updating the model itself.

So if that's of interest to you, please take a look at the slides and I'll have these.

In the.

Yeah, and back repo early this evening sometime.

So now I'd like to open the floor to any of the Members here if they'd either like to talk a little bit about what their domains may be doing or have any questions for us. This is your opportunity.

TK Thomas Krul (NBAC Co-Chair) 37:56

Steve, I'd like to make some points on some of the, the new and up and coming domains first.

First of all, we're making huge progress with the forensic data sets and we're targeting to brief and back at the end of April and back session.

Are there any forensics office people on the call?

If so, could you introduce yourselves?

H Harner, Elena N CTR USARMY HQDA DFBA (USA) 38:18

Yeah, this is Elena Harner. And I believe we have Brian here on the call as well.

We're both contractors. Support for defense forensics and biometrics agency.

We also have Ryan Triplett, who's our branch chief, and we've been working with Cameron to get the forensics domain established.

And yeah, looking forward to briefing next month.

TK Thomas Krul (NBAC Co-Chair) 38:45

Awesome. We're also making progress with the Analytical Laboratory Subcommittee currently reviewing the name, Gov Content and logo and governance document should be able to report back to this group at the end of the April meeting.

Is anybody from the Analytics Laboratory subcommittee on the call as well today?

Can you introduce yourself please?

A Andrew Scott- ICLN PM 39:04

Yes, good.

Good afternoon.

This is Andrew Scott.

I'm the icln.

Current icln PM also my colleague Brett Forshey, who is the incoming Icln director.

The new director is in the meeting as well.

Yes, as Brad said, we're working on our governance documents and we're also working through on our our data elements side too, more to follow.

Brett, you care to say any words?

Maybe we lost Brett.

TK **Thomas Krul (NBAC Co-Chair)** 39:39

I don't seem yeah.

A **Andrew Scott- ICLN PM** 39:40

OK.

TK **Thomas Krul (NBAC Co-Chair)** 39:43

And OK.

A **Andrew Scott- ICLN PM** 39:43

Yep, go ahead.

TK **Thomas Krul (NBAC Co-Chair)** 39:44

So next, next week we'll hear from you guys.

So that's next month. Sorry.

Reviewing and mapping the BIOTECTION data set valid the data sets impact on other names subcommittees.

Is there anybody from the Biodeetection office? Can you introduce yourself please?

I guess maybe I want to ask, has anybody had any difficulty?

I I myself have joined the call from the the link in the invitation the teams call.

Louis, Shunda R CTR JS J6 (USA) 40:17

Thomas, there were a couple of links in the invitation for the teams call today.

One was for a future meeting, so I join that and move the people over to this meeting.

TK **Thomas Krul (NBAC Co-Chair)** 40:25
Ah.

Louis, Shunda R CTR JS J6 (USA) 40:28
So I think everybody that's supposed to be here ended up here.

TK **Thomas Krul (NBAC Co-Chair)** 40:32
Oh, good. OK.
I just. Yeah, 'cause. I did have difficulties joining and I had to wait for a link from Steven.
So we may, we might look into that, maybe we sent redeeming the the invites and creating a new one. If there's an issue because I know I've infected that that I've been having difficult last couple months joining and I've been scrambling at last minute to get on by.

A **Andrew Scott- ICLN PM** 40:38
Yeah.

TK **Thomas Krul (NBAC Co-Chair)** 40:50
Telephone. Even so. OK, cool.
Well, we'll take care of that.
I just wanna make sure that people are heard for that one and.
And now we can turn over to anybody who's got anything to add.
From their domain or they need to to bring up it's open, open for everybody to speak.
Please feel free.
OK.
So got a a message from oh, Andrew Scott had difficulty getting as well.
Yeah, the MC from DHS.
Obam would be interested as well.
Forensics. Thank you. OK. So we'll get them in, in contact about that.
I'm gonna make a note of that.
And.
So and anything else, anybody.

BB **Brad Bolliger (EY)** 41:38

Yeah, I think my hand is still up. So I can't raise it again or lower it.

TK **Thomas Krul (NBAC Co-Chair)** 41:41

Oh.

BB **Brad Bolliger (EY)** 41:42

I'm not a member of the chat also, so I have to come off a mute and ask to be included in some of the forensics and biometrics work as well.

I just, you know, as a NTAC Co chair would love to be up to date on the exciting work there.

TK **Thomas Krul (NBAC Co-Chair)** 41:57

OK.

Pass that on. We'll get that started. Excellent.

Louis, Shunda R CTR JS J6 (USA) 42:05

I just wanted to add, this is Shonda from the strategic communications, but some of those represents that Paul made earlier.

I've put links to some of the.

Communications that were sent out through Pressfire regarding the cybersecurity event and the webinar that Paul referred to over.

PW **Paul Wormeli** 42:27

Thank you.

TK **Thomas Krul (NBAC Co-Chair)** 42:33

Yeah, I'm looking at that event as we speak.

It looks very it looks really interesting.

Alright, Steve, I guess we can get to the next item on the agenda.

Sullivan, Stephen M CTR JS J6 (USA) 42:45

The that really takes us through the agenda once again, I'd like to encourage everyone to consider joining the plenary sessions.

For the Co chair meeting April.

16th and 17th you'll get meeting notices if.

You're a member of the Nbac mailing list. If you're not, I would encourage you.

To sign up for the N bag mailing list, and that link is one of the items on the resource slide here it will be posted.

To our admin repo for the end bag.

Or you can just e-mail me and I'll be happy to send it to you or any of the other ones that we have here.

So Thomas, that's that's it from from my perspective, I'll let you take us out.

TK **Thomas Krul (NBAC Co-Chair)** 43:45

So I'm gonna bring up something that you know we're doing on my group specifically.

It's modernized command control information systems. I mean, for those of you who are familiar with military stuff, command and control is, you know, just being able to.

Set up information gathering and and and and make that connection between what information you have and and decision making that makes effects in the field we in the past have called it the you know sensor to shooter or sensor to effector.

But it speaks to a larger kind of problem, because we do talk about interoperability, huge component of that.

And as a consequence, we're working on a subject many of you probably are talking about, and which is data centric security for the data centric security architecture and model that we're working on right now. We're positing neem as the standard for, you know, information exchange within that environ.

As much as possible as part of the standard so.

If anybody's interested in discussing we're I'm I'm Azure stack hubs which we're gonna be using as edge devices to demonstrate some sort of data lake of the unclassed we will have one on on some experimental networks as well which are accessible by people who are working perhaps.

At civics or Bold quest and those kinds of things, the idea being to bring as many parties.

On board as possible to to to try out what? What is basically.

The pan domain pen country kind of technology which would allow us to maintain and hold on to information assets and and but also to exchange at A at A at a better rate than we have in the past and rate that that allows us to make a Dec.

Making advantages over, you know, the past.

So if anybody's interested, they can contact me if they're interested in data centric security.

And we can talk about what we're trying to do and and maybe if you want to even get possibly involved somehow.

To to try to connect to and exchange test information.

See how that works.

So you protect information as well as as as well as open avenues for information exchanges.

Going forward anyway that's I hope everybody has that is having good March.

I know it's a spring break time.

Crazy times we're living in right now.

Hopefully all this this will all kind of settle out a bit and we'll be living a bit less.

Anxious times.

But.

We look forward to seeing you guys next month and hopefully Cam will be there with some great stories. Cheers.

Brad Bolliger (EY) 46:26
Thank you, Thomas. Thanks everyone.

Thomas Krul (NBAC Co-Chair) 46:27
Yes.

Paul Wormeli 46:30
Bye bye.

Thomas Krul (NBAC Co-Chair) 46:30
Bye.

Louis, Shunda R CTR JS J6 (USA) 46:31
Thanks, bye.

◉ **Sullivan, Stephen M CTR JS J6 (USA)** stopped transcription