ICANN82 | CF – ccNSO: TLD-OPS Standing Committee Session
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CLAUDIA RUIZ

Hello and welcome to the ccNSO TLD-Ops Standing Committee Session. My name is Claudia Ruiz and I am the Remote Participation Manager for this session. Please note that this session is being recorded and is governed by the ICANN Expected Standards of Behavior and the ICANN Community Anti-Harassment Policy.

During this session, questions or comments submitted in chat will be read aloud if put in the proper form as noted in the chat. If you would like to speak during this session, please raise your hand in Zoom. When called upon, virtual participants will unmute their microphones in Zoom. On-site participants will use a physical microphone to speak and should leave their Zoom microphones disconnected. For the benefit of other participants, please state your name for the record and speak at a reasonable pace. Thank you and with that, I will now hand the floor over to Régis Massé, Chair of the TLD-Ops Standing Committee. Thank you.

RÉGIS MASSÉ

Thank you, Claudia. Hello, everyone. Good morning, good afternoon, good evening for people in the room and remote. My name is Régis Massé. I'm the Chair of the ccNSO TLD-Ops Standing

Committee Group and I'm the CTO of AFNIC, the DTFR Registry. During this session, we will introduce and explain just what is TLD-Ops for newcomers and what we are doing. With the group, we will talk about the new organization of the group. We will talk about new stuff, new tools we are using and we will present you the roadmap of the year, the new roadmap for 2025.

So, TLD-Ops, what is it? It's a global technical incident transparency community for and by ccTLDs and it's open to all ccTLDs according to a record for the ccNSO. For the moment, it brings more than 400 people who are responsible for the operation security and stability. It's about 200 different ccTLDs. So, it's CTOs, CISOs, especially from ccTLDs.

When you are on the TLD-Ops list, you are in person. That means we know your name, we know your contact, your email address, your telephone number to be contacted and to share and to talk with other people from the group. It's not aliases, it's not people who don't know who are behind email aliases.

So, it's important to share information with interest, with other people, we know who they are. And the goal, it enables ccTLD operators to collaboratively detect and mitigate incidents that may affect the operational security and stability of ccTLD services on their registry and internet.

The idea is not to replace the team, it's not to replace the existing process or tools, it's to bring new things and new tools to help ccTLDs, big ones, small ones, all the ccTLDs over the world. For that, we've got a standing committee, we've got some members

during this remote session here in Seattle, and we've got also liaisons with IANA, with ICANN, and with the SSAC, of course.

So, when you are on the list, at the beginning, the TLD-Ops were just a mailing list, and when you are on this list, you receive once a month the global list of contacts with their names, with their phone, with their email address, and from which ccTLD they belong. And we will see further that now we have reached a point where this email is not a good tool to use, and we will update these kinds of things with NextCloud, a new platform where the management of contact will be easier for all of us. But the idea is that having a list of contacts, maximum three per registry, and to be sure that these contacts are still in the registry, so we update the list regularly to be sure that the people are working in the registry and they are having operational and security functions.

Next slide, please. So, just to finish this introduction of TLD-Ops, you've got the link of the ccNSO website where is the introduction on how to join and collaborate with the group. So, you have all the information on this webpage to see what we are doing and who we are. And you have got also a wiki page, now it's more a Confluence page, and there is a migration of Confluence website by ICANN these days.

So, in this wiki page, you've got all the materials we have created since seven years now. For example, we have created two playbooks. The idea of playbooks is to help registries to fight against cyberattack. So, there is a playbook for DDoS mitigation, DNS DDoS mitigation, and there is a playbook for DRBCP. So, in this

playbook, it's not a magical tool. It's a list of templates. It's a tool that you can use in your registry. You have templates that you can personalize. You can update the templates. You can fill them with your constraints, with your informations, and that helps to fight against this kind of attack.

And after that, we have made with Jacques Latour, who was the chair before me, we have made two disaster recovery business continued plan tabletop exercises, one in ICANN66 and one in ICANN81. Those exercises were, the idea was to have a game with a lot of people from the ccNSO to simulate cyberattack and to see how to fight against them. So, I will just talk about the ICANN81 exercise just later, and give you an update of what happened in Istanbul.

Next slide, please. Okay, during Istanbul, last ICANN, last TTX during ICANN81. So the idea was to have a cyberattack simulation workshop. We had more than 60 people during the session. It was on the Sunday. So, it's like a game. It's a game, indeed. So, we had several roles of people in the ccNSO. We have manager. We have technical people from the registry. We got legal department and communication department represented too. And the idea of this game is to have a scenario with some steps.

There were five steps. It was a ransomware attack for registry. And during each step, each team is playing with playing cards. And with the playing cards, they have to choose three cards for each step that describes the action they should do with the information of the step they have. And after five steps, so when they have played 15

cards, there is a wrap-up. The idea is to exchange with the other groups, why they have taken those decisions, why they have played those cards. And it's a way to share and to simulate and to share the thing they address in the way they address cyberattack in their registry.

It's very different from one registry to another because of the context, because of the size of the company, because of the things. But this exercise was, I think, very appreciated. I have, and thanks to the community, I will say the same thing during this ccNSO update on Tuesday. Thanks for the face station we had after the TTX. So, yeah, the question was, do we have another one this year? The answer is no, because it takes a long time and we are, we need some volunteers to prepare these kinds of things. But I think it's a game we will play another time in other ICANN.

During this time, as I said on the website just before, you've got all the materials. You've got all the materials available to play this game. You've got the cards, you've got the templates, you've got the scenario, you've got all the things and you can adapt for your ccTLD, for your registry. Even if you are not working in a registry, you can adapt to this kind of exercise. Even if you are working for a registrar or in a company, you can adapt these kinds of things to play with this kind of simulation game of cyberattack.

It's a good way to communicate with all the people in the company about security. It's more fun than just having books to read or information from the CISO that say you have to do that, you have to do that, you have to do that. Including people in the game is

often better for people to train and to be conscious of the impact of cyberattacks. So, feel free to use the material, feel free to use the play cards, feel free to use all the things we've got on the TLDs.

The idea of this group is really to give things to the community, especially for CISO registries, that's true, but the idea is to give all the things with no fee of course and to develop this kind of thing. So, also if you have new ideas or of new things you wanted us to work on about cyber security, feel free to send us an email or things like that. I don't know, Federico, if you want to add something about that.

FREDERICO NEVES Yeah, definitely it was a very good exercise and the second one that we had. But as you said, it's a lot of work to organize this and we were kind of blessed to have someone with a lot of experience doing the organization of the tabletop exercise. But we definitely need more volunteers from the community to tackle this in the future.

RÉGIS MASSÉ Next slide, please. Okay, so about the composition of the student committee. During ICANN81, the student committee's leadership has changed. So, Jacques Latour, who was the chair of the group for a lot of years, has left his retirement. So, he has left the role and I was approved as a chair and Niklas Pousette, the CTO of the Swedish registry, was approved as vice-chair.

The thing is that Niklas had just left the Swedish registry at the beginning of the year. So, he can't work for the ccNSO anymore. So, he can't be a vice-chair of this group. So, we don't have any vice-chair for the moment. That's why there's only the name of the chair in the first page or in the first slide. It's not that I don't want a vice-chair. I need a vice-chair and would like to have a vice-chair. That would be good for me.

So, the first thing at the beginning of the year is that as Niklas and Jacques have left the group, we have found two new candidates and they are now part of the group. We want to welcome Guillermo Lama from NIC Chile and Nathan Meurrens from EURid. They have joined the group and thanks for their proposition to join and to join the adventure of TLD-Ops. So, I know that they are on remote. I think I saw them in the list of the participants. Yes, they are here.

So, Guillermo and Nathan, thanks for your vantage to join the group. You will be added to the list of the committee soon, of course. So, we will work together and we'll join the next meeting. I think we will have before the next ICANN in Prague. So, I think it will be end of April or just beginning of May to prepare the next meeting. But the other thing is if someone from the group wants to be the vice-chair, just tell me. I think we have to--

Can we have the next slide, please? So, the composition for the group is that for the moment, I'm the chair. Okay, Guillermo has joined us. We've got Erwin from Denmark, Angela from Botswana, Ali from Comoros, Nathan, the new ones, of course, Federico from Brazil and Josh from New Zealand. And we've got also liaisons with

the ICANN, John Crane, Kim Davis, Warren Kumari from liaison with SSAC and Claudia who helped us to make the administrative part of this group.

So for a vice-chair, the idea is if someone from the group wants to be a vice-chair, I'd be very pleased to hear that. Otherwise, perhaps we have to find a new member. When I see the list, I see that now we've got no one from North America. So, during the ccNSO, I think I will ask just if someone perhaps from Canada or from the United States wants to join the TLD-Ops groups.

We've got people from South America. We've got people from Europe. We've got people from Africa. We've got people from New Zealand. But we don't have any more from North America. So, perhaps it will be an idea to have a new member. But if, as I say, if one of the members here wants to work with me as the vice-chair, the situation is very simple. It's like it was in Istanbul. We must just have the validation of the standing committee. It was like that for Niklas and I during Istanbul.

So, if there are volunteers, we can make it by email or just with a little meeting on remote. And the idea is to find, not today, but in a few weeks, to find a new vice-chair. Because I think for these kinds of groups and for all the groups, it's always good to have a chair and vice-chair, two people to be sure that the aiding of the group is here. If someone is ill or not available, I don't know, it's important to have two people piloting the group and at the head of the group.

So, I don't know if there are some reactions in the chat. I don't see the chat for the moment. But I'm sure that Claudia should tell me

if there are some reactions. But the idea is not to find today a vice-chair, but just to have this idea in mind, because I think it will be important to have a new vice-chair soon. I don't know if the people from the group on remote can react. Perhaps they can talk on the chat. I don't know, Nathan or Josh or Guillermo, I don't know if you have some reaction. I just check in the chat. I don't see any messages for the moment.

UNKNOWN SPEAKER Régis, we have a hand in the room.

RÉGIS MASSÉ Ah, yeah, question?

ABDALMONEM GALILA Yeah, this is Abdalmonem Galila for the record. I am representing the IDNC's of Egypt as the director of numbering affairs. Actually, maybe it's my second time for TLD-Ops, so I have some misunderstanding here. For example, we have in our organization, our regulator at Egypt, we have ccTLD operation as a team, and the other security team is called CRT. It's away from the operation of the ccTLD, so you are targeting here the CRT people who are responsible for the security incidents that are related to their ccTLDs, or you are targeting the ccTLD itself who are working for the daily operation business?

This is the first question. Second question is related to the playbook. I think it is only for English people. It's only for six

languages? Yeah, which is fine, but now I say that I am one of the Arab guys that are businesses here, and I don't think there are more guys from Arab region exists in remote participation, so my suggestion is that the last TLD-Ops workshop was very successful, and now we are looking, from my point of view, we are looking for more participation from different regions, as you said previously, you are looking for North America, but actually there is Arab guys behind, so I think it will be a good chance for ICANN84 to have something similar like the TLD-Ops workshop that was done at ICANN81 at Istanbul. Thank you.

RÉGIS MASSÉ Okay, thank you for your questions. First of all, the first part is to have people from the registry, so if you have some groups, security groups on one side or other groups, operational going to the other side, it doesn't matter. What we need is to have people, operation people or security people from the registry.

ABDALMONEM GALILA So, you mean what I need to add is a CRT guy, one of the CRT guys who are responsible to see the incident inside the group itself as well, besides me?

RÉGIS MASSÉ Yeah.

ABDALMONEM GALILA Okay, thank you.

RÉGIS MASSÉ So, the second question was, okay, if you look on the web page, you will see that all the materials were translated, thanks to ICANN, in five or six languages, the languages of ICANN, usually. I don't remember if Arabic is there, but I have to check, I have to check, just to be sure. But, and when, okay, so they are translated. I don't know if it is translated in all the languages, but we do our best.

For your first question, I don't think we will have the time to prepare another exercise for ICANN84. Yes, I know it's in Oman, it's in Muscat, so I think there will be a lot of Arabic people coming there. But, as I said, it has taken a lot of time last year to do this. We have found 10 volunteers to help us, and it's not easy to find volunteers. So, my proposition for this year is a big difference, we'll see just after, is to work on security tools that propose, that the TLD-Ops groups propose from several years. But, okay, I think this, I don't say we won't make another exercise. Perhaps the idea is to create an exercise on yourself with the materials, something like that. But, no, for this year, I think it will be difficult to organize that.

CLAUDIA RUIZ I'm sorry to interrupt, Régis, were you talking, referring to the playbook that we did? The publishing, the playbook? That one was in Arabic, and I can put the link in the chat for them.

RÉGIS MASSÉ: I know it's in French, but I don't remember all the language. Okay. So, next slide, please. Okay. So, about the contact repository implementation. As I said at the beginning, for the moment, the contacts are shared to all the community, the TLD-Ops community, by email. It's not very secure, it's one point, but it's not very easy to use. So, during ICANN81 in Istanbul, Jacques Latour has started to work on NextCloud, on the NextCloud platform with the DNS org, and he has handed over scripts management to Josh, the member of New Zealand, and Josh has imported 400, 300, or 999 contacts in the NextCloud. He has made some works on that, and he has proposed to make some demonstrations today. So, Josh, I don't know if you are with us. You've got the floor if you want to talk about what you've done since the beginning of the year for the group. Josh, you've got the floor.

JOSH SIMPSON: One, two. Testing one, two. Okay, how about now? Is that working?

CLAUDIA RUIZ: We can hear you. You're able to share your slides now.

JOSH SIMPSON: Sure, thank you. Right, so it's not so much slides, it's just a little bit of the work that's been done. So, from Jacques, as mentioned, I inherited a number of Python scripts that he had been working on. I've been trying to refine those to take the output of what gets emailed in the mailing list at the moment and synthesize that into

the NextCloud instance that we have. So, there's a good amount of work has been done by Jacques, and thank you to him for that.

There are some refinements still to be done on the import, so the current import is not the final one, but it mainly relates to making sure that the functionality is there. The key one is the improved usability, as we just mentioned. So, we have, on the right-hand side, we've got a local instance for testing, and essentially, we get all the contacts imported. There're still some bugs in that, but they're grouped by ccTLD on the left here, and the full list of contacts is in the center.

My one is currently shown, and you can search for contacts. So, I search for nz, the TLD that I work for, and it shows the three contacts, and that is primarily the web interface. Not everyone has the ability to use that. So, on the left here, we have an emulated Android device, and you can access the same interface by bookmarking the NextCloud interface, which gives you a very similar view, but in addition to that, you can search for individual things. You can search for IDNs. So, for example, Egypt, which came up earlier in the discussion, and that also working.

The key one here, though, is the ability to integrate with the phone contacts if you desire to do so. So, I've used Android here, but it also works on Apple iOS, and we can see here in the context for this phone, I have imported the TLD ops, and that's currently synchronizing to this phone, and I can search for myself, and it's the same contact record coming across. So, there's a bit more to do on

that, and making sure that we can search for the cc codes properly, and a few other things.

There's also a bunch of documentation and usage stuff that we need to prepare for ICANN staff, so they can operate this, but for the most part, we're going pretty well there.

This is the production instance, which has a test load in it at the moment, and the current work is just centering on making sure that when we import all these contacts, we need to create accounts for everyone. So, that means mailing out to lots of different people, so we're just testing the mailing system, just making sure we've got the wording and language right there, so that it's not a bad experience to put everyone into the platform, and that was it. Are there any questions that I can answer while we've got this up?

RÉGIS MASSÉ So, Josh, thank you for this. My question is, it's Régis. My question is, do you know if there's an application on the phone which can access to the contact, and not synchronize?

JOSH SIMPSON There is an Xcode application, but unfortunately, the one feature that the Xcode application doesn't have is the contacts. So, it can access the files, which is the other application we have installed on the Xcode instance, and we will probably make use of that at some point in the future. That's to be discussed, but the contacts, unfortunately, there is no integration directly into the Xcode

application. There is the ability to sync the contacts, which is the related bit.

So, on Android, you have to use a third-party app called DavX5, and we'll have to develop the documentation for that, and on iOS, it's natively integrated with Card App, which allows contacts to be synced to the native address book. So, you can have it as a native contact, but it does put a lot of contacts into your main address books, over 400 of people you may not know, or we can use a bookmarked application, so we can set up some documentation on how to create that, which doesn't import it to your contacts, but does give you the details on your phone.

RÉGIS MASSÉ: Yeah, there is a question.

LOUIS: Hi, this is Louis. I have a quick question about this is NextCloud, this is an open-source software. What about updates of the platform? Are these model contacts able to support updates, I mean standard updates, or every time this needs to be updated to a next version on NextCloud to be adjusted?

JOSH SIMPSON: Yeah, so we're currently working through that, but it's a contract we have with DNS-OARC to host the platform, which we pay them for support contracts. So, there is a process which we're still

working on by how we make sure that the platform is up-to-date and secure.

RÉGIS MASSÉ: Question?

ABDALMONEM GALILA: Yeah, thank you, Ghosh. This is Abdalmonem Galila for the record. I am representing the IDN system of Egypt. Actually, the normal question for me is that how could I update the old contacts here for the IDN system of Egypt, as I see some names that are no longer available for the operating the registry.

JOSH SIMPSON: Right. That's because I popped them up earlier. Yeah, so the current contacts that are in there are imported from the email contact list that was sent last week. So, if they're not up to date here, they're also not up to date in the mailing list. And the process for updating that, we're not proposing any change to that. This is a read-only list. The contact will be updated via the same process that it currently is updated by for the mailing list. We will make sure that we get that documentation out with the platform usage, just so that everyone is aware of the process by doing that. I'm 99% sure that it's currently done with assistance from ICANN staff. So, Régis, you might need to correct me on that if I'm wrong, but yeah.

LOUIS

Yes, this is Louis again. About the security of this information, I mean, how sensitive is this information? Is it public or should we keep it secure? I have a question about Card App protocol. I assume you're using a username and password to synchronize Card App, for example, but I'm asking if you are using another level of security like security client certificates or one-time password or any other level of security to synchronize Card App with contacts on the phone.

JOSH SIMPSON

Okay. For security, the current security, the direction for this is to improve the security. So, at the moment, the entire list of names, phone numbers, and email addresses are emailed to the 400 plus members of the mailing list. This is trying to move that in a direction that allows a little bit more security. So, there will be a username and password for each user in this and there are plans and code that has been provided by Jacque to validate that people are actually logging in and keeping their details up to date. As for more advanced forms of authentication, not at the moment, but it's something we can potentially look into in the future.

RÉGIS MASSÉ

Just maybe if I can ask a thing like that. Just remember that this idea is to upgrade the way we share contacts for the moment. It was just an email, unclear. So, the idea for a moment is to have a new platform. That's why we have taken this contract for four years with DNS-OARC to try this platform. I'm not sure it's the perfect solution, but it was a way to try something last year. And as I said,

all the contacts are verified by ICANN when we add or modify things in this list. So, we will see perhaps. The idea is to make this tool in production this year to see how we can use it and we can share easily contacts.

For a small registry, when they have an incident, having a tool, having a way, an easy way to find things. That was the list before. And when you have that, it's not very easy to move that and to have this in your phone or things like that. So, that was the idea. The idea of last year was to find a tool and we have worked with DNS-OARC. We have explained some ways to find something and we have decided to try this tool this year.

JOSH SIMPSON: So, here just as brought on screen now is last week's version of the current email that's being sent. So, we're trying to improve on this format.

LOUIS: Yeah, yes. This is more like a comment. I understand the intention of the software and is to keep kind of tool when you can exchange contacts easily. So, if any update of the contact list that will be synchronized by the tool. It will be easy to have it on cell phone or any other thing. But there's a possible scenario where there's no internet connectivity in case of emergency. So, that's a good thing about the list in the email because the list in the email you already have it local. So, you don't need the connection to the internet to keep kept today the contacts. But in case of emergency, internet

could fail. So, something could be difficult to achieve the synchronization of the contacts.

RÉGIS MASSÉ: Yes, I understand really your point of view. The idea is not to stop the email for the moment. It's not to have something new. But I think we will, going on sending the email for the moment.

LOUIS: Maybe this three to one model of backup. So, you have the same information backup three times to different medias. So, they will do have one on the cloud and one local, for example, that will be kind of and one on paper probably.

JOSH SIMPSON: Yeah, just for reference with the that may address one of those concerns is that the way in which the Android contact syncing works is actually by our sync not a live lookup. So, the dev tool actually runs a synchronized. So, they are local contacts on your phone and will work offline. But it's a good point and we will make sure we're looking into that when we decide to make any changes to the mailing list.

RÉGIS MASSÉ: Okay, thank you, Josh.

JOSH SIMPSON Thank you.

RÉGIS MASSÉ Back to the slides. Yes, perfect. So, just to end the last slide, is to now finish some things and going live during this year. So, next slide, please. So, now the roadmap, just to share and to have a common view of the new roadmap for this year. We will just update the information we've got in the list to be sure that we've got the updated list of countries that are not yet in the mailing list. We, several years ago, we will have a lot of communication with TLD-Ops to say, okay, you are not on the list.

There are some countries, we have 200 countries on the mailing list for the moment. So, a lot of them are missing. So, the idea is to make new communication for the countries, to say, okay, join these TLD groups if you want, but it's free. It can be useful for you. And the idea is to make a new campaign during ICANN, during the ccNSO by email to bring in the TLD-Ops list the missing countries. And the second point is to make collaboration with the working group in preparing the ICANN session and implementing the action list.

The action list has to be reviewed. There were a few things on it. So, we will work with the group to make a new one and update what should be updated. We have just talked about that, but development of tools for information sharing, contacts between registry with the next cloud platform, just to show us what we are doing now. And the idea for this year, because one of the goals of

the group is to make things for the community, is to update the security software tool list we've got on the ccNSO website.

The last update was in 2020. And our idea is to update this list to see what are the new tools, freeware tools that the community can use to improve their security. And perhaps during ICANN84, making some demonstration of the tools. And not having a list, but having people from the community and from the group who will present, okay, we have this tool, we can do that, we can do that with scenarios and things like that. It's shorter to prepare. It takes less time to prepare than TTX, but it can be interesting to have a workshop, a session with the community around this kind of tools.

And perhaps this year also is to update, I know there's a project in, we started to update the ccNSO website, which is a bit old now, and moving our session to be more precise on what we are doing and helping the community to find the information easily. So, that is the roadmap for this year. We are already in March. So, I think finding members, finding a new vice chair, include countries that are not yet here for the moment, and working on the workshop of concrete demonstration of security software, it will be a good thing for this year. I don't know if you have some reaction about this roadmap. Josh or Nathan or Guillermo, if you have some reaction, feel free to put the things in the chat.

CLAUDIA RUIZ Régis, Guillermo has his hand up.

GUILLERMO LAMA

Régis, as Nathan, or Nathan, I don't know how to say the name, thank you for being part of the TLD-Ops group. So, next I was writing to Josh directly because we use @.clNextcloud platform, self-hosted, and if I can share our experience with the platform, please feel free to ask me.

RÉGIS MASSÉ

Okay. Thank you, Guillermo, and welcome on board. Next slide please. So, just to, okay, it's one of the slides we had sometimes when there's a lot of people who don't know what we are doing, so I think we will, based on this slide, to contact the registry that are not on the list. Just to send an email to join, it's very easy. For me it's important to say that it's secure, we know the contact, we have identified them, we have trust, we have verified that they are who they are, and this group is very helpful for the community. So, yes, I think we have done a lot of things.

We can do a lot of things now to continue this inventory of TLD-Ops. It's important, I think, to work on the security between the registry. My idea, and I would like to, and I hope there will be more information sharing between registries this year. Since two or three years, there are very few communications on the mailing list. I think. I don't know yet how we can tell all the community to not hesitate to ask for help, to explain what they have seen as the incidents or cybersecurity issues, but it's one of the goals and the primary goals of this group, so I think we have to work on it also. Next slide. I think, yeah, it's just a resource, so the card of the Vice Chair is empty for the moment, but I hope we can fill it soon now.

Next slide, I think it's the last one now. Okay, thank you. So, I don't know if there are some reactions, comment, questions?

ABDALMONEM GALILA: Yeah. Abdalmonem for the record. Actually, you added your revision at the last two steps for help. You said that I could submit an incident and have help from the Work Group members. I think it will be better to have the list of incidents that the group help on, maybe as a reference for the future. Maybe one of these lists that one of the ccTLD manager have help on, maybe other one in the future could have similar case and it could be something more-easier and more faster to overcome what the incident is.

RÉGIS MASSÉ: Yeah, thank you. Several years ago, people were sharing incidents on the list and during the sessions, we always have the list to share and say, okay, this registry has this kind of problem. If you have this kind of problem, you can contact them to share with them directly to see how they resolved the problem. But as I said, since three years now, the list is very empty. So, we have transformed the group to produce delivery, to make exercise, but the main goal and the primary goal of the list is really to share and to contact people.

ABDALMONEM GALILA: Yeah, you are totally right. But actually, I don't think it's good for registry to share that he was an incident, for example, since 2024. This may give an idea for the attacker to have something malicious

to the registry again. So, I think if it could be just hashing the name of the ccTLD, it will be better to go for that.

RÉGIS MASSÉ Yes, I understand. Okay, if we want to make a report, yes, we can hide the name of the registry, but the idea as the group is closed, we are all registry of the ccNSO. It's not open to registrar, it's not open to ICANN, it's not open to other companies. So, knowing, as you said, knowing that this registrar has this kind of problem and we can contact them directly if we have the same thing or the same symptoms to see what they have done, I think it could be interesting. Another question, reaction? I just look in the room on remote. Claudia, you see something?

CLAUDIA RUIZ No, nothing in the chat.

RÉGIS MASSÉ So, thank you for your attention and we close the session. Thanks a lot.

[END OF TRANSCRIPTION]