

A world map in shades of blue, overlaid with a white grid pattern. The map shows the continents of North America, South America, Europe, Africa, Asia, and Australia. The text 'ccNSO Webinar' is centered over the map in a bold, yellow font.

ccNSO Webinar

March 2018

ccNSO

Country Code Names Supporting Organisation



Introduction to the ccNSO

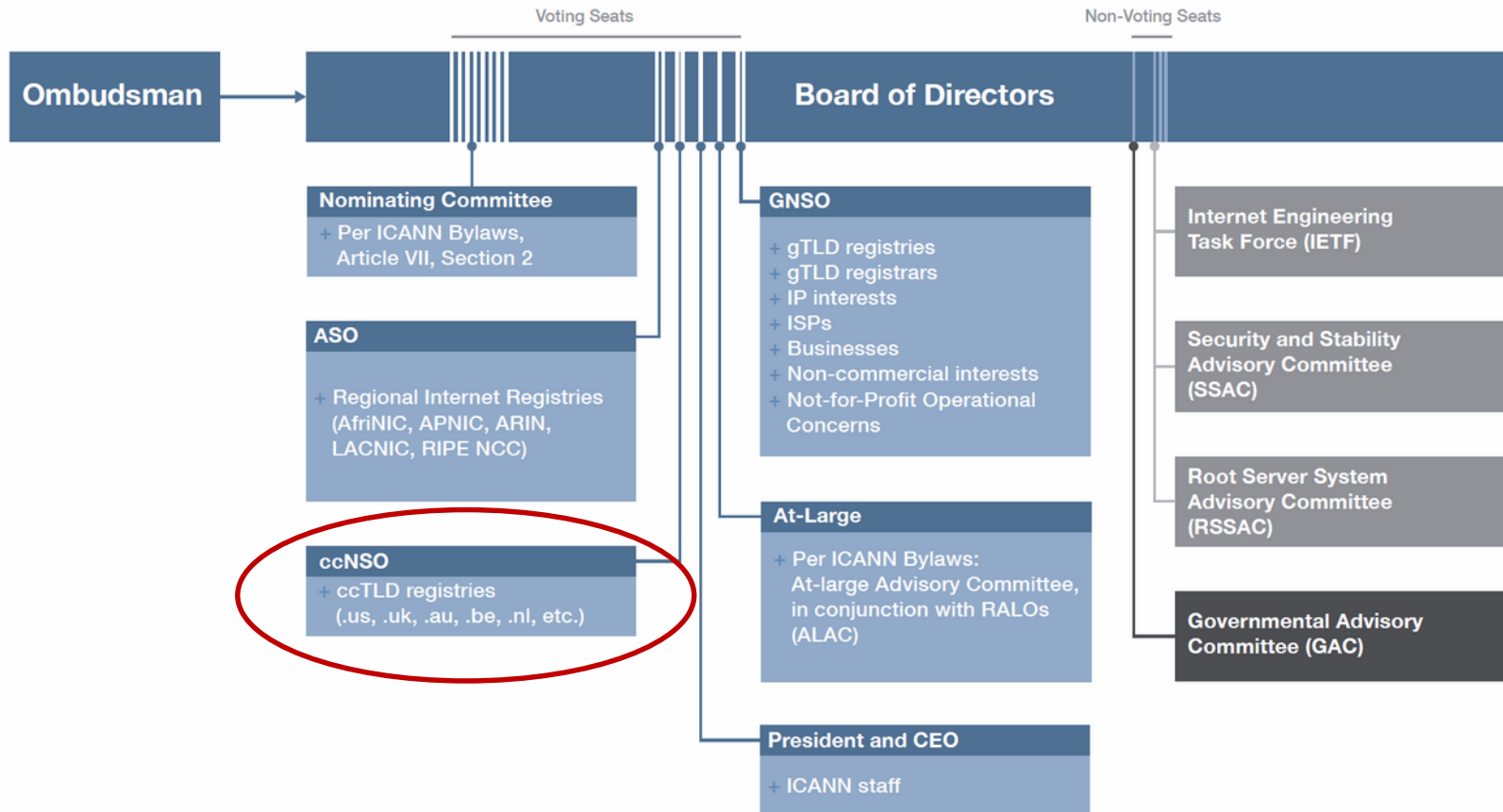
What is Country-Code Names Supporting Organization (ccNSO)?

Bylaw definition: ICANN Policy-development body, which shall be responsible for:

- ⦿ Developing and recommending to the Board global policies relating to country-code top-level domains;
- ⦿ Nurturing consensus across the ccNSO's community, including the name-related activities of ccTLDs; and
- ⦿ Coordinating with other ICANN Supporting Organizations, committees, and constituencies under ICANN.

However, the ccNSO may also engage in other activities authorized by its members.

ICANN Organizational Chart



Who Are We?



- Members (165, March 2018, gradually growing)
- Council (18 Councillors)
- Chair, Vice-chairs
- ccNSO Secretariat

Membership: 165

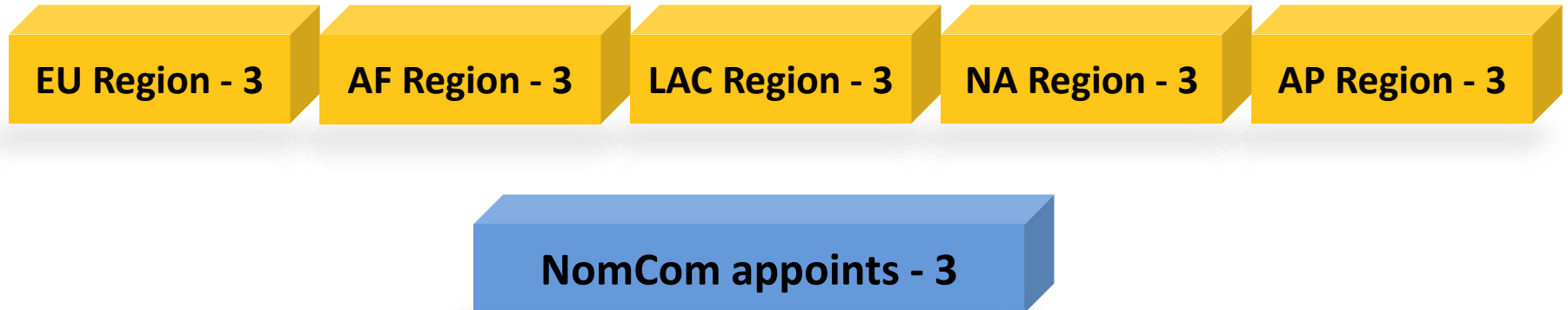


Observers: AfTLD, APTLD, CENTR, LACTLD

The Role of the Members

- ❖ Members: ccTLD managers that have agreed in writing to be members of the ccNSO
- ❖ Role of the members
 - Volunteers, participate in activities of ccNSO and other groups
 - Elect Councillors (Bylaw)
 - Nominate Board members seat 11 and 12
 - Final vote ccNSO PDP (Bylaw)
 - 10 % members may call for a vote on all Council decisions

ccNSO Council



Chair: Katrina Sasaki (.lv)

Vice-chairs: Byron Holland (.ca), Demi Getschko (.br)

Annually appointed

The Role of the ccNSO Council

- ccNSO Council: responsible for managing the policy-development process of the ccNSO
- Role of the Council evolved
 - Manage affairs ccNSO
 - Represent ccNSO
- Nominate Board members (Bylaw)
- Appoints chair and vice-chairs

Major Council decisions Q 4 2017

- ccNSO will NOT participate in RDS/WHOIS2
- Participation in WT 5
- Council Statement on Operating Standards Specific Reviews
- Actions to understand impact from the use of Emoji as Second Level Domain names
 - Study Group & check current language in FT and overall policy
- Requirements for NomCom appointees to the Council

ccNSO Policy Development Activities: Limited

- Scope for Policy development very limited
 - ✓ Limited Scope defined in Annex C
 - ✓ Out of scope: all policies relating to registration of ccTLD domain names (local ccTLD policies)
 - ✓ Policy applies to ccTLD by virtue of membership, exceptions (applicable law and breach local custom or public policy)
- Process defined in Annex B ICANN Bylaws
 - ✓ Heavy handed process
 - ✓ Members vote, after Council vote
 - ✓ Structural engagement GAC
- To date only two (2) PDPs and 1 ongoing PDPs:
 - ✓ Bylaws (2005)
 - ✓ IDN ccTLDs (2013 Board report)
 - ✓ Independent review mechanism decision relating to delegation, revocation, transfer and retirement of ccTLDs

Evolved Functions ccNSO

- ⊙ Policy related work
 - Framework of Interpretation RFC 1591
 - IDN ccTLD Fast Track
- ⊙ Platform function
 - ccNSO meeting days
 - Tech Day
 - Joint meetings Board, other SO/ACs
- ⊙ Represent ccTLD community interests in ICANN eco-system
 - Interaction with ICANN Board
 - Strategic and Operation Planning WG
 - ccTLD voluntary financial contributions to ICANN

What Does the ccNSO Do for ccTLDs

- Exchange of information
- Networking
- Represent ccTLD community interests in ICANN
- Policy Development
- Policy related work

A world map with a blue and white color scheme, showing the continents and oceans. The map is centered on the Atlantic Ocean.

Current ccNSO Activities



TLD-OPS: ccTLD Security and Stability **Together**

security alerts | incident contact repository | global collaboration

EMEA Webinar
March 6, 2018

Jacques Latour, .ca (chair)

Feel free to ask questions right away, no need to wait until the end of the presentation!

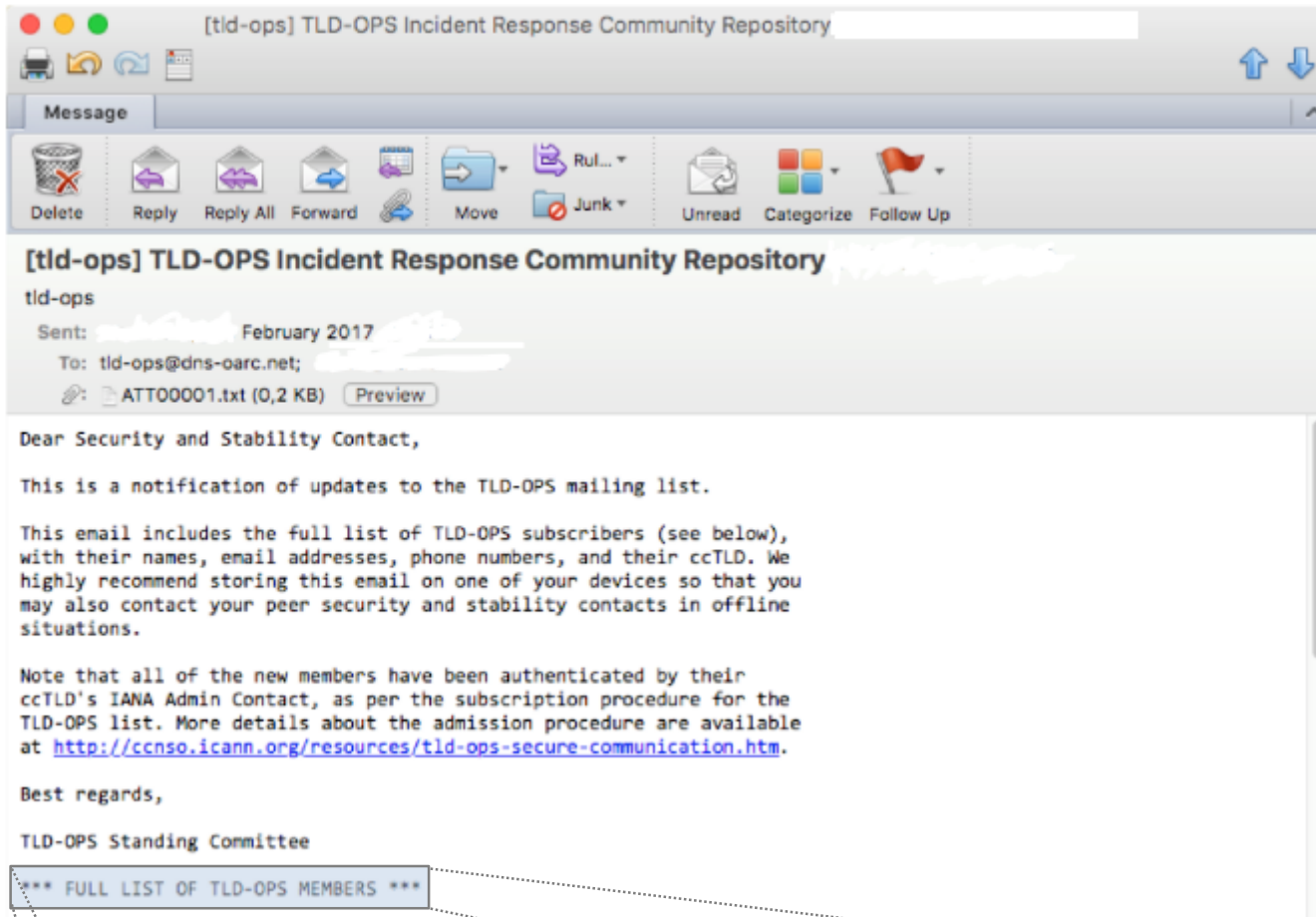
TLD-OPS

- Global technical incident response community *for and by* ccTLDs, open to *all* ccTLDs, *not* a commercial enterprise, not for vendor/service solicitation
- Brings together people who are responsible for the operational security and stability of their ccTLD
- **Goal: enable ccTLD operators to collaboratively detect and mitigate incidents that may affect the operational security and stability of ccTLD services and of the wider Internet**
- Further *extends* members' existing incident response structures, processes, and tools and *does not* replace them
- Guidance by TLD-OPS Standing Committee

TLD-OPS Membership Statistics

All	Members	%	Missing	%	Total
Total	193	66%	98	34%	291
ASCII	Members	%	Missing	%	Total
Total	164	67%	81	33%	245
AF	25	49%	26	51%	51
AP	50	61%	32	39%	82
EU	65	100%	0	0%	65
LAC	19	45%	23	55%	42
NA	5	100%	0	0%	5
IDN	Members	%	Missing	%	Total
Total	29	63%	17	37%	46
Date: Feb 26, 2018					

Contact Repository Email



Secondary
Email
Support

"John Doe, #1, .nl, +31 123456789" john.doe@nic.nl, john@oarc.net
"Jane Doe, #1, .vn, +84 123456789" jane.doe@nic.vn, jane@oarc.net

Examples of Security Alerts and Queries

- Malware use DNS to steal personal info
- Two DDoS attacks on a registry's name servers
- Registry front-end compromise due to 0-day vulnerability
- Large malvertising campaign targeting popular ccTLD websites
- A ransomware that used domain names of various ccTLDs
- Helped one ccTLD with problems with their DNS anycast service
- Security warning for a ccTLD that got hacked
- Security warning on DDoS attack on DNS root of June 25, 2016
- Security warning regarding large volumes of Cutwail Traffic
- Queries on latency problems with DNS anycast operators

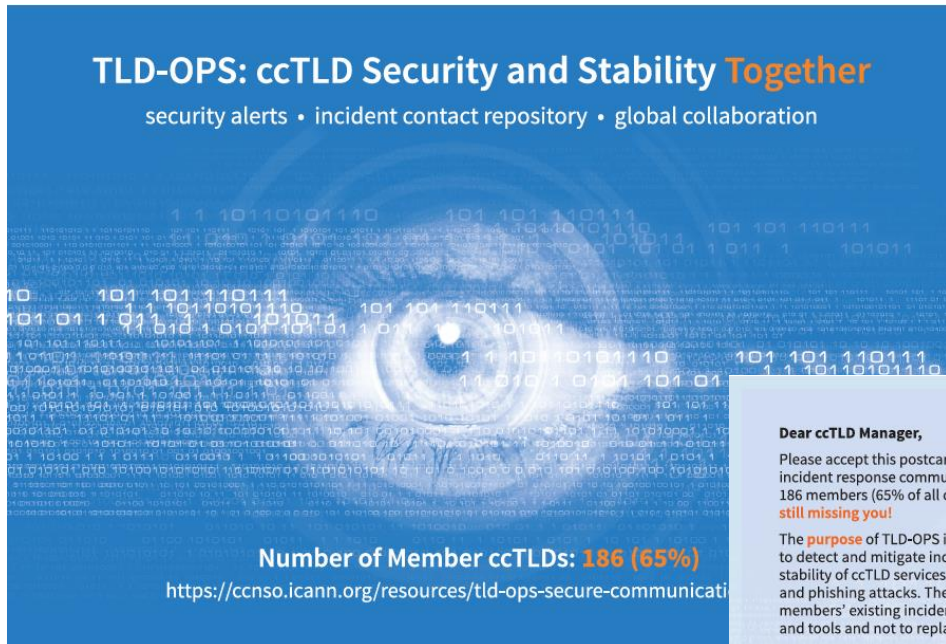
Why Join?

- Increase reachability of your ccTLD in incident response situations
- Increase your ability to help your peers in these situations
- Increase your awareness of incidents and your security posture
- Learn from your peers how they solved incidents
- Contribute to security and stability of wider Internet infrastructure
- TLD-OPS is open to *all* ccTLDs
- TLD-OPS is an initiative *for and by* ccTLDs
- Joining only takes one email (through your IANA Admin Contact)!

Contact Us If Your ccTLD is on This List!

AF	AP	LAC
.ac Ascension Islands	.az Azerbaijan	.ai Anguilla
.ao Angola	.bd Bangladesh	.bo Bolivia
.bj Benin	.bt Bhutan	.bs Bahamas
.cd Congo, the Democratic Republic of the	.ck Cook Islands	.bz Belize
.cf Central African Republic	.cx Christmas Islands	.cu Cuba
.cg Congo, Republic of	.dj Djibouti	.ec Ecuador
.ci Cote d'Ivoire	.gu Guam	.gf French Guiana
.cm Cameroon	.hm Heard and McDonald Islands	.gs S. Georgia & the S. Sandwich Islands
.er Eritrea	.io British Indian Ocean Territory	.gy Guyana
.et Ethiopia	.kg Kyrgyzstan	.ht Haiti
.ga Gabon	.kp Korea, Democratic People's Republic of	.hn Honduras
.gn Guinea	.kz Kazakhstan	.jm Jamaica
.gq Equatorial Guinea	.mh Marshall Islands	.kn Saint Kitts and Nevis
.gw Guinea-Bissau	.mm Myanmar	.ky Cayman Islands
.lr Liberia	.mp Northern Mariana Islands	.mq Martinique
.ml Mali	.mv Maldives	.ms Montserrat
.mr Mauritania	.nc New Caledonia	.mx Mexico
.ne Niger	.nf Norfolk Island	.pe Peru
.sd Sudan	.np Nepal	.sr Suriname
.sl Sierra Leone	.nr Nauru	.sv El Salvador
.so Somalia	.om Oman	.sx Sint Maarten
.st Sao Tome and Principe	.pf French Polynesia	.tc Turks and Caicos Islands
.sz Swaziland	.pk Pakistan	.vc Saint Vincent and the Grenadines
.td Chad	.pw Palau	
.tg Togo	.tc Turks and Caicos Islands	
.zw Zimbabwe	.tj Tajikistan	
	.tk Tokelau	
	.tm Turkmenistan	
	.to Tonga	
	.tv Tuvalu	
	.ws Samoa	
	.ye Yemen	

TLD-OPS Postcard (January 2017)



Dear ccTLD Manager,

Please accept this postcard as a kind invitation to join **TLD-OPS**, the incident response community **for and by ccTLDs**. We currently have **186 members** (65% of all ccTLDs) from across the globe, but **we're still missing you!**

The **purpose** of TLD-OPS is to enable its members to help each other to detect and mitigate incidents that may affect the security and stability of ccTLD services, such as DDoS attacks, malware infections, and phishing attacks. The aim of TLD-OPS is to **further extend** members' existing incident response structures, processes, and tools and not to replace them.

TLD-OPS builds on a standard **mailing list**, which members actively use to share and receive security **alerts and queries**. The list also acts as a **contact repository** in that subscribers receive a monthly automated email that contains the incident response information (names, phone numbers, email addresses) of all member ccTLDs.

The contact repository **improves the reachability** of TLD-OPS members because everyone has everyone else's contact information readily available in their inbox, which typically also works in offline emergency situations.

TLD-OPS is open to **every ccTLD** and joining only takes a few minutes. Please check the TLD-OPS homepage (URL on the front of this card) and download our leaflet, which is available in Arabic, Chinese, English, French, Russian, and Spanish.

We hope to welcome you on board soon!

Best regards,
TLD-OPS Standing Committee

Place
Stamp
Here

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We obtained your address from the IANA root zone database at <http://www.iana.org/domains/root/db>

TLD-OPS Workshops at ICANN58/59 (members only)

- Goal: explore how TLD-OPS members can collaborate to detect and mitigate DDoS attacks, develop a DDoS mitigation playbook
- Motivation: recent (IoT) attacks on DNS operators (e.g., Dyn, root)
- Approach
 - Facilitate dialog: sharing of experiences, discussion, generation of ideas
 - Considering perspectives such as technical, operational, and strategic
- Targeted results
 - Shared understanding of role of TLD-OPS in handling DDoS events
 - Guidelines and tools to integrate TLD-OPS into ccTLD operations
 - DDoS mitigation playbook template for ccTLD

Summary

- Open and global incident response community for and by ccTLDs
- Builds on standard mailing list (193 ccTLDs, 345+ subscribers)
- Enhances local incident response facilities, not a replacement
- Increases everyone's reachability and security awareness
 - Everyone has everyone else's contact info in their inbox, even offline
 - Exchange security alerts and queries (DDoS attacks, phishing, etc.)
 - Learn from each other
- Easy to join (through IANA Admin Contact)

<https://ccnso.icann.org/en/resources/tld-ops-secure-communication.htm>

Q&A

TLD-OPS Standing Committee

Frederico Neves, .br

Jacques Latour, .ca (chair)

Erwin Lansing, .dk

Régis Massé, .fr

Ali Hadji Mmadi, .km

Jay Daley, .nz

Abibu Ntahigiye, .tz

Brett Carr, .uk

Warren Kumari (SSAC contact)

John Crain (ICANN's security team contact)

Kim Davies (IANA contact)

ICANN Staff

Kim Carlson

TLD-OPS Home

<http://ccnso.icann.org/resources/tld-ops-secure-communication.htm>

TLD-OPS Leaflet

<https://ccnso.icann.org/workinggroups/tld-ops-enhanced-incident-response-capabilities-cctlds-14apr16-en.pdf>

Arabic, Chinese, English, French, Russian, Spanish, Russian

Contact

Jacques Latour

Standing Committee Chair

+1.613.291.1619

jacques.latour@cira.ca

PDP Retirement of ccTLDs

Members:

Patricio Poblete
Nigel Roberts
Dr Eberhard W Lisse
Stephen Deerhake
Peter Van Roste
Peter Vergote
Danko Jevtović
Mirjana Tasić
Martin Boyle
Tom Barrett
Wafa Dahmani
Abibu Ntahigiye
Svitlana Tkachenko
Barrack Otieno
Annebeth Lange
Nick Wenban-Smith
Barbara Povše
Debbie Monahan
Allan MacGillivray
Peter Koch
Garth Miller

*SOIs have been linked if an individual has one on file or if their individual SOAC requires one.

Participants:

Olévié Kouami
Theo Geurts
Michele Neylon
Maureen Hilyard
Marita Moll
Rasheed Tamton

Observers and Experts:

Elise Gerich
Naela Sarras
Kim Davies
Vadim A. Mikhaylov
Olivier Girard

ISO3166 Expert:

Jaap Akkerhuis

Staff Support:

Bart Boswinkel
Kim Carlson

- Terminology
- Retirement Scenarios
- Work plan

<https://community.icann.org/display/ccnsowkspc/Policy+Development+Process+%28PDP%29+-+Retirement>

Use of Country and Territory names as TLDs: Participation in WT5 GNSO PDP Subsequent procedures

- New Era: participating as ccNSO in GNSO PDP
- Terms of Reference Safeguards decision making: To be further discussed in San Juan
- Fall-back position: Current Applicant Guidebook, including exclusion of C & T as gTLDs
- Definitional issues: what is a geographical name?
- Topic meeting ccNSO-GAC & ccNSO- GNSO

ccNSO Meeting Strategy Review

- Review of the current meeting format
- Survey of ccTLDs
- Consultation with ccTLDs & work session in San Juan
- Includes review role of the Programme WG, # of meetings etc.

ccNSO IDN and IDN related work

- Use of Emoji as SLD: Relation IDNA protocols
- Fats Track Process: Introduction Risk Mitigation (confuding similarity)
- Review of the overall proposals needed:
 - Impact RZ-LGR (not addressed currently)
 - Review of membership clauses folowing Bylaw changes
 - Update based on latest expereinces Fast Track Process

Next Steps IDN ccPDP



Your views are needed!

Hot topics ccNSO agenda in San Juan:

- Policy & Policy related work
 - Retirement of ccTLD & Country and Territory names
 - Legal Session: Impact of GDPR on WHOIS ccTLDs: perspectives from 3 regions
- ccNSO Meeting Strategy work session
- Use of emoji as second level domains: Security and Stability concerns, Tech Day and Members Day
- ccNSO Rejection Action Petition Procedure or How to Stop some ICANN's decisions?

Agenda and participation at ccNSO related session during ICANN61

- Agenda Tech Day (Monday 12 March):
<https://community.icann.org/display/ccnsowkspc/Tech+Day+San+Juan++Agenda>
- Agenda ccNSO Meeting days (Tuesday, Wednesday 13 and 14 March):
<https://community.icann.org/pages/viewpage.action?pageId=74587248>
- Remote Participation ICANN61:
<https://community.icann.org/display/ccnsowkspc/ICANN61++San+Juan%2C+PR++2018>

ccNSO

Country Code Names Supporting Organisation



A world map is shown in a light blue color against a dark blue background. The map is centered on the Atlantic Ocean. Overlaid on the map is the text "Thank you!" in a large, bold, yellow font with a slight shadow effect. The text is positioned in the upper-middle part of the map, covering parts of North America, Europe, and Africa.

Thank you!