



# TLD-OPS Standing Committee

## ccNSO Update

**March 8, 2016**  
**ICANN55, Marrakech**

Cristian Hesselman, .nl (chair)

# TLD-OPS

- Technical incident response community for and by ccTLDs
- Brings together folks who are responsible for the overall security and stability of their ccTLD
- Goal: facilitate further increased level of security and stability of ccTLDs' services and of the Internet as a whole
- Approach: increase (i) reachability of ccTLD incident response contacts and (ii) level of shared knowledge on security alerts
- Open to *every* ccTLD, irrespective of ccNSO membership
- Oversight by TLD-OPS Standing Committee
  - ccTLD reps and Liaisons (SSAC, IANA, ICANN's security team)

# TLD-OPS Mailing List

- Regular automated emails with incident response info
  - Contact persons, phone numbers, and email addresses
  - Info of all subscribed ccTLDs in one email
  - Easily and quickly look up contact through (local) inbox
- Share security alerts, such as
  - Attacks (DDoS, reflection attacks, phishing, etc.)
  - Software vulnerabilities, malware
- Model of personal trust
  - Personal email address and phone number (no role-based accounts)
  - Contributes to further increasing trust within the ccTLD community
  - Approval model via IANA admin contact, bootstraps trust
  - Low entrance barrier, unlike vouching model

# TLD-OPS Membership Stats

All	Members	%	Missing	%	Total
<b>Total</b>	<b>173</b>	60%	<b>117</b>	40%	<b>290</b>

ASCII	Members	%	Missing	%	Total
<b>Total</b>	<b>145</b>	<b>59%</b>	<b>99</b>	<b>41%</b>	<b>244</b>
AF	22	45%	27	55%	49
AP	42	51%	41	49%	83
EU	62	95%	3	5%	65
LAC	16	38%	26	62%	42
NA	3	60%	2	40%	5

IDN	Members	%	Missing	%	Total
<b>Total</b>	<b>28</b>	61%	<b>18</b>	39%	<b>46</b>

Last update: Mar 5, 2016

# Progress Since ICANN54

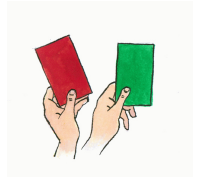
- Added 6 ccTLDs (Egypt, Algeria, Barbados, Gibraltar, Moldova, Bosnia and Herzegovina)
- Updated TLD-OPS leaflet
  - Added value for members, governance
  - Based on ICANN54 feedback
  - <http://ccnso.icann.org/workinggroups/tld-ops-enhanced-incident-response-capabilities-cctlds-14jan16-en.pdf>
- Extended TLD-OPS Standing Committee
  - Ali Hadji Mmadi of .km (Comoros, AF)
  - Warren Kumari (SSAC Liaison)
  - John Crain (Liaison to ICANN's security team)
  - Kim Davies (IANA Liaison)
- Working with ICANN Regional VPs to onboard more ccTLDs

# Challenge #1: Sharing

- How to facilitate list members to share security alerts through the TLD-OPS list?
- Part 1: bootstrap
  - Package and share security info relevant for ccTLDs
  - In collaboration with ICANN’s security team
  - Later fully rely on ccTLD operators to provide alerts (“peer-to-peer”)
- Part 2: operational processes
  - How do we get TLD-OPS into ccTLDs’ operational processes?
  - On check lists, for example
  - *Unresolved, please let us know if you have any suggestions!*

## Challenge #2: Include gTLDs

- Open up TLD-OPS for new and legacy gTLDs?
  - 1.000+ TLDs to be expected ( $57\% * 1.500$  nTLDs + 170 ccTLDs)
  - ~65 nTLD back-end operators ( $1.500$  nTLDs \* 38 RSPs/918 nTLDs)



Pros	Cons
<ul style="list-style-type: none"><li>• Strengthens incident response capabilities of all TLDs</li><li>• Further increases security and stability of Internet at large</li><li>• Reach critical mass, making TLD-OPS mandatory for all TLDs</li></ul>	<ul style="list-style-type: none"><li>• Increases heterogeneity of TLD-OPS community</li><li>• Increases complexity of governance and administration</li><li>• Might increase ICANN involvement</li></ul>

- Proposed approach if approved
  - Keep current TLD-OPS Standing Committee structure until ICANN58
  - Request ICANN to allocate time to administer list
  - Request ICANN to actively promote TLD-OPS among gTLDs
  - Start discussion on how to add gTLDs at ICANN56

# TLD-OPS Standing Committee

- Vacancy for a ccTLD rep from the Asia-Pacific region
- Propose to stay on until ICANN58
  - Council mandate until ICANN55, set at ICANN53 (Buenos Aires)
- Assessment at ICANN58



## Objectives until ICANN56

- Increase the number of ASCII ccTLDs subscribed to the list to 185 by targeting specific ccTLDs with the help of ICANN's Regional VPs
- Get the list to be used more often through our collaboration with ICANN's security team (package and share security alerts)
- Develop a simple procedure for members to update their contact information (320 people on the list)
- Find a ccTLD representative from the Asia-Pacific region by approaching APTLD

# Q&A

## TLD-OPS Members

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Jacques Latour, .ca

Erwin Lansing, .dk

Ali Hadji Mmadi, .km

Cristian Hesselman, .nl (chair)

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Warren Kumari (Liaison to SSAC)

John Crain (Liaison to ICANN's security team)

Kim Davies (Liaison to IANA)

## ICANN Staff

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## TLD-OPS Home

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

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