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

<table>
<thead>
<tr>
<th></th>
<th>Members</th>
<th>%</th>
<th>Missing</th>
<th>%</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>173</td>
<td>60%</td>
<td>117</td>
<td>40%</td>
<td>290</td>
</tr>
<tr>
<td><strong>ASCII</strong></td>
<td>145</td>
<td>59%</td>
<td>99</td>
<td>41%</td>
<td>244</td>
</tr>
<tr>
<td>AF</td>
<td>22</td>
<td>45%</td>
<td>27</td>
<td>55%</td>
<td>49</td>
</tr>
<tr>
<td>AP</td>
<td>42</td>
<td>51%</td>
<td>41</td>
<td>49%</td>
<td>83</td>
</tr>
<tr>
<td>EU</td>
<td>62</td>
<td>95%</td>
<td>3</td>
<td>5%</td>
<td>65</td>
</tr>
<tr>
<td>LAC</td>
<td>16</td>
<td>38%</td>
<td>26</td>
<td>62%</td>
<td>42</td>
</tr>
<tr>
<td>NA</td>
<td>3</td>
<td>60%</td>
<td>2</td>
<td>40%</td>
<td>5</td>
</tr>
<tr>
<td><strong>IDN</strong></td>
<td>28</td>
<td>61%</td>
<td>18</td>
<td>39%</td>
<td>46</td>
</tr>
</tbody>
</table>

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

• 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)

<table>
<thead>
<tr>
<th>Pros</th>
<th>Cons</th>
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</thead>
<tbody>
<tr>
<td>• Strengthens incident response capabilities of all TLDs</td>
<td>• Increases heterogeneity of TLD-OPS community</td>
</tr>
<tr>
<td>• Further increases security and stability of Internet at large</td>
<td>• Increases complexity of governance and administration</td>
</tr>
<tr>
<td>• Reach critical mass, making TLD-OPS mandatory for all TLDs</td>
<td>• Might increase ICANN involvement</td>
</tr>
</tbody>
</table>

• 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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TLD-OPS Home
http://ccnso.icann.org/resources/tld-ops-secure-communication.htm

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