Secure Use of IDN ccTLDs Through Effective Policy Making and Outreach by ccNSO

September 2018
APTLD
What causes security issues?

What ccTLDs can do to improve the situation?
There Are Numerous Types of DNS Attacks

- Denial of Service.
- Cache poisoning.
- Zero day attack.
- DNS tunneling.
- DNS hijacking.
- DNS amplification.
- ...

Phishing!
Phishing Attack

A criminal sends an email pretending to be someone or something he’s not, in order to extract sensitive information out of the target.

One of the ways – use **visually similar domain names**!
Confusing Similarity?
Confusing Similarity?

.lv - .lu
.lt - .lt
.ad - .ads
.fo - .foo - .food
.accountant - .accountants
Confusing Similarity?

.орг
.бг - .br
.БАРТ - .БАЗАР
.ΕΛ - .ΕΑ
.ΕΥ - .EU
Confusing Similarity?

G00GLE.COM – GOOGLE.COM
wikipedia.org – wikipedia.org
Confusing Similarity?

pir.org - and - pir.com
The More I Think
The More Confused I Get
Briefly about IDN ccTLDs

- IDN ccTLD Policy: not accepted yet by the Board, needs to be updated

- IDN ccTLD Fast Track – a test-bed for the general policy

- Latest update of the Fast Track policy:
  ICANN Board of Directors 25 June request: «further guidance on and refinement of the methodology of second string similarity review process, including the interpretation of its split recommendations, to be applied to the relevant current and subsequent cases in the IDN ccTLD Fast Track process as well as to inform the proposed policy for the selection of the IDN ccTLD strings»

- Extended Process Similarity Review Panel Working Group
IDN ccTLD Policy: Areas for Review and Update

- Evaluation of confusing similarity: Fast Track evolved and showed shortcomings of the original process
- How to deal with variants?
- Review of applicable technical requirements: IDNA2008 has become fully effective. Any impact?
- Current limitations in the policy: still appropriate?
IDN ccTLDs - and - IDN gTLDs

IDN ccTLD policy
ccTLD Fast Track

PDP New gTLD Subsequent Procedures
Universal Acceptance: a Major Issue

- What is Universal Acceptance?
  - Not limited to IDN ccTLDs, all new TLDs
  - Different levels

- ccNSO has not been very active in this area: is there a need?

- If so, please advise!
ccNSO
Country Code Names Supporting Organisation

Confused
Unclear
Perplexed
PhishMe concluded:

- Phishing attempts have grown 65% in 2017
- Susceptibility rates have dropped to as low as 5 percent.

Reporting and engagement is the KEY!
Thank you!