

“Security” related proposals in the DAG v3

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Agenda

- ⌚ Background
- ⌚ Mitigating Malicious Conduct
- ⌚ High Security Zones
- ⌚ HSTLD working group

Background

- ❧ Draft Application Guidebook v3
 - ❧ Two memoranda
- ❧ Mitigating Malicious Conduct
 - ❧ All new gTLDs **MUST** do
- ❧ High Security Zone Verification
 - ❧ Optional program for new gTLDs only
 - ❧ Also called HSTLD
 - ❧ ICANN working group set up to discuss

Context

- Security is in daily news
- High profile attacks common
- ICANN in awkward position
 - In a central position of influence
 - Under threat from ITU
 - Must be seen to do something
- ccTLDs cannot be in a bubble
 - This may apply to us some day

Analysis

- From my work in RISG
 - Registration Infrastructure Safety Group
 - www.risgggroup.org
- Group made up of
 - gTLDs
 - ccTLDs
 - Registrars
 - Security Companies

Vetted Registry Operators

- ⌚ Already ‘bad actors’ running registrars.
Prevent same at registry level.
 - ⌚ Vetting of people/company bidding
- ⌚ Generally a good idea
- ⌚ BUT
 - ⌚ Mere involvement in legal cases disqualifies
 - ⌚ No mention of change of control
 - ⌚ No prevention of gaming with multiple companies

Require DNSSEC

- ☞ Must go live with DNSSEC
- ☞ Huge boost for DNSSEC
- ☞ Generally a good idea
- ☞ BUT
 - ☞ Current gTLDs/ccTLDs don't have to
 - ☞ Root zone scaling study points at possible issues from doing too much at once.

Prohibition on wild carding

- ❧ ICANN board has already voted on for existing TLDs
 - ❧ Uncertainty as to how that will be implemented
- ❧ Another good idea
- ❧ BUT
 - ❧ Board recommendation came SSAC route - not a community consultation process

Thick WHOIS

- ☞ Good idea
- ☞ BUT
 - ☞ Gives better access not better quality of data
 - ☞ ICANN can insist on any other protocol
 - ☞ Thin WHOIS is not policed properly so what can be gained by doing that?

Central Zone File Access

- ⌚ Not a good idea
 - ⌚ No diversity of security/vetting
 - ⌚ Few ccTLDs allow this, for good reason
- ⌚ BUT
 - ⌚ Security companies say it is vital
- ⌚ New ICANN WG for this
 - ⌚ Zone File Access
 - ⌚ Has draft recommendations out

Abuse contacts and policy

- ☞ Three parts
 - ☞ Publication of abuse contacts
 - ☞ Mandated abuse policies
 - ☞ Publication of abuse policies
- ☞ Contacts good idea, rest not
 - ☞ What is so special about abuse policies?
 - ☞ Not in scope for ICANN to determine
 - ☞ Others are better at setting policies

Expedited registry request

- ☞ Where registry asks ICANN for contractual compliance relief
- ☞ Good idea
- ☞ BUT
 - ☞ No details on how provided
 - ☞ Or what threats will qualify

High Security Zones

- Voluntary program
 - Certification with onsite seal
 - New gTLDs only
- Wide scope
 - General IT and data security
 - Registry specific IT and data security
- Quite a messy document
 - Breakdown into topics presented here is not apparent in the document

General IT security

Includes

- “Security management”
- “Personnel security”
- “Physical access control”
- “Data collection, use, retention, access, etc”

BUT

- Already plenty of standards - ISO 17799
- Reinventing the wheel

Registry specific IT security

- Includes

- “Name resolution service management”
- “DNSSEC deployment plan”

- BUT

- What existing registries agree on these?
- What makes security special from other operational practices of a registry? (i.e. why no overall registry quality mark?)

Registry performance

- Includes
 - “WHOIS service availability”
 - “WHOIS service performance level”
 - “WHOIS service response times”
- BUT**
 - What has this to do with security?

Verification of registrant

- ⌚ Yes, this is verification of identity for registrants of new gTLDs
- ⌚ BUT
 - ⌚ Completely out of scope for ICANN
 - ⌚ Identity fraud already used extensively in bad registrations
 - ⌚ Breaks entire gTLD business model
 - ⌚ Break “equal access requirements”

Verification of entitlement

- Quote is
 - “Other considerations, such as controls to address intellectual property concerns, could be added as components for future consideration in the lifecycle of this program”.
- Not a security issue
 - Worrying to see it included

Registrant/Registrar interface

- Great idea
- BUT
 - Out of scope for ICANN
 - Prevents registrar differentiation
 - All domains are not equal
 - Same problem of equal access requirements

Summary

- ☞ Good discussion - odd venue
- ☞ Some big issues
 - ☞ Change in ICANN scope
 - ☞ Disregard for GNSO policy process
 - ☞ Lack of empirical evidence
 - ☞ Unclear market impact
 - ☞ Restricted scope
- ☞ But lots for us to think about

Any questions?

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