Security & Stability Advisory Committee

Update of Activities
Topics

1. Overview of Activities -- Patrik Fältström, SSAC Chair
2. SAC054: SSAC Report on Domain Name Registration Data Model – Jim Galvin, SSAC Vice Chair
3. Questions/Discussion/Other Topics
Recent Publications

Published in 2012:

• [SAC054] SSAC Report on the Domain Name Registration Data Model
• [SAC053] SSAC Report on Dotless Domains
• [SAC052] SSAC Advisory on Delegation of Single-Character Internationalized Domain Name Top-Level Domains
• SSAC Comment on the ICANN FY13 Budget: Impact on SSAC Productivity
• SSAC Comment on the ICANN Draft Roadmap to Implement SAC 051

Published in 2011:

• [SAC051] SSAC Report on WHOIS Terminology and Structure
• [SAC050] SSAC Advisory on DNS Blocking - Benefits Versus Harms
• [SAC049] DNS Zone Risk Analysis
• [SAC048] SSAC Comment on the Definition of Orphan Glue
• [SAC047] SSAC Comment on the ICANN gTLD Registry Transition Processes Model
Current Work Parties/Working Groups/Committees

• Membership Committee
• Internationalized Registration Data Working Group (IRD-WG)
• Domain Name System (DNS) Security and Stability Analysis Working Group (DSSA-WG)
• Board DNS Risk Management Framework Working Group
• Impact of DNS Blocking Work Party
• Root Key Rollover Work Party
2012 Work Plan, Cont.

• Public Meetings and Collaboration
  • Regular meetings with law enforcement agencies
  • Briefings to Supporting Organizations and Advisory Committees at ICANN meetings
  • Briefings with other community groups as requested

• Other Work Parties Identified for Future Work:
  • Public interest (No Fee) Domain Holding Pen
  • Security and Stability Issues Relating to New gTLDs
  • Deployment of IPv6 in addition to IPv4
SSAC Report on Domain Name Registration Data Model

Jim Galvin
What is it?

• The Domain Name Registration Data (DNRD) model is a straw man registration data model for community discussion and consideration and as a basis for further development
  – It takes into consideration existing data requirements from gTLD registrar and registry agreements, escrow agreements, and ongoing work on internationalized registration data requirements, and some ccTLD data requirements.
  – It makes no policy assertions.
Why it is important?

• There is currently no uniform data model that exists for DNRD and this unduly complicates data submission, handling, exchange, and access

• A standards-based, structured, and extensible data model could:
  – Address the variability in DNRD-DS representation
  – Improve the user experience for internationalized registration data (Final Report of the Internationalized Registration Data Working Group and the WHOIS Review Team Draft Final Report)
Methodology

• Document the life cycle of a domain name from registration to release
• Enumerate data elements that are needed to support the life cycle
Life Cycle of a typical Domain Name

- Released
- Available for Registration
- Registered (Active)
- Grace Period
- Expired
Life Cycle: Domain Registration

Other operations include update, transfer, renew or deletion of the domain name.
What is the Data Model?

• Enumeration of Data Elements (Descriptive Model)

• Data Profile: implements the data model
  – Detailed Data elements
  – Attributes: format, minimum/maximum length, language tags, cardinality, etc.
  – Profile parameters: Character encoding, mark up language, protocol used to access the data
  – Additional rules

• Relationship: one data model, but could have multiple data profiles (e.g. profile for DNRD-DS, profile for escrow)
Recommendations

• The SSAC invites all ICANN SOs/ACs and in particular registry and registrar stakeholder groups to
  – Consider this data model and comment on its completeness and
  – Comment on the utility of the model in furthering the definition of a directory service for domain name registration data as outlined in SAC 033 and SAC 051.
Potential Issues

The ccTLD and gTLD data models are different. It will be a challenge to harmonize the two models.
Next Steps

• One of WHOIS Review Team's recommendations is for ICANN to convene a working group to determine the data model.

• The SSAC is meeting with community members to explain the model and answer questions.
Questions/Discussion/Other Topics