

# Security & Stability Advisory Committee

## Update of Activities



PRAGUE



# 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

# 2012 Work Plan

## 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?

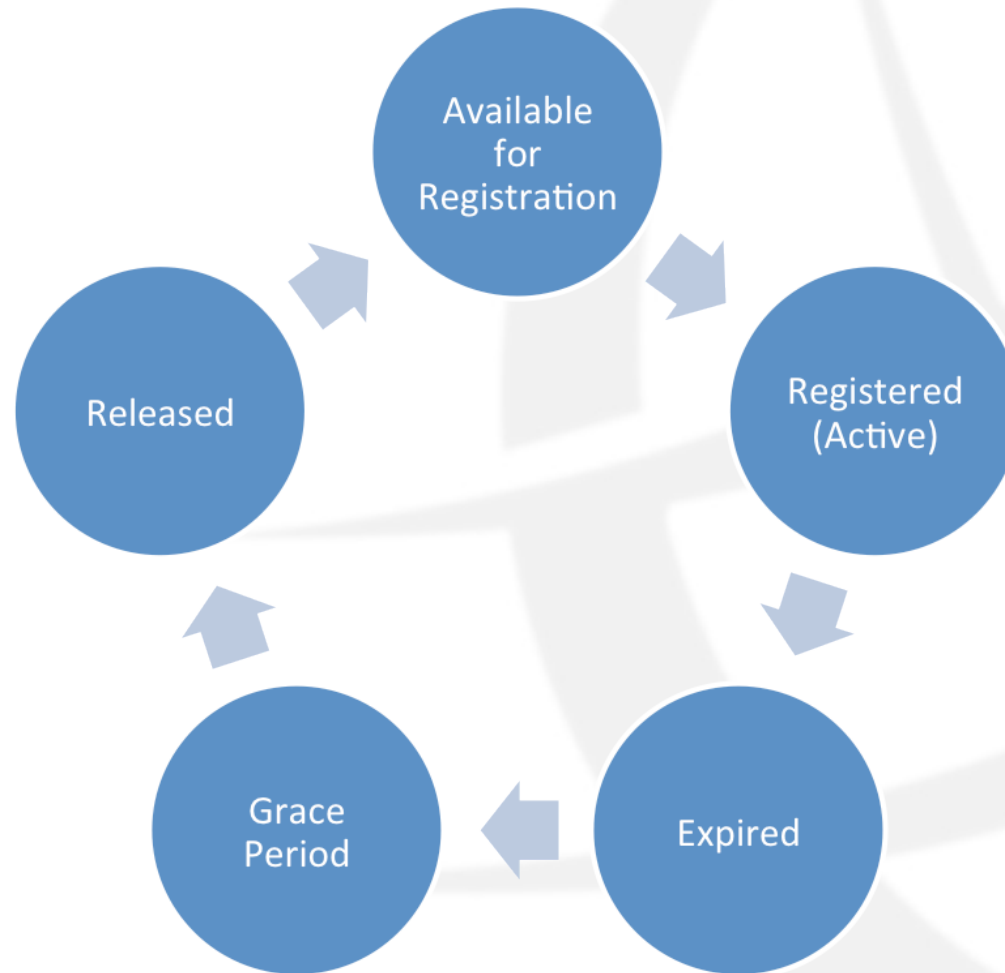
- There is currently no uniform data model that exists for DNRD and this unduly complicates data submission, handling, exchange, and access
- A standards-based, structured, and extensible data model could:
  - Address the variability in DNRD-DS representation
  - Improve the user experience for internationalized registration data (Final Report of the Internationalized Registration Data Working Group and the WHOIS Review Team Draft Final Report)



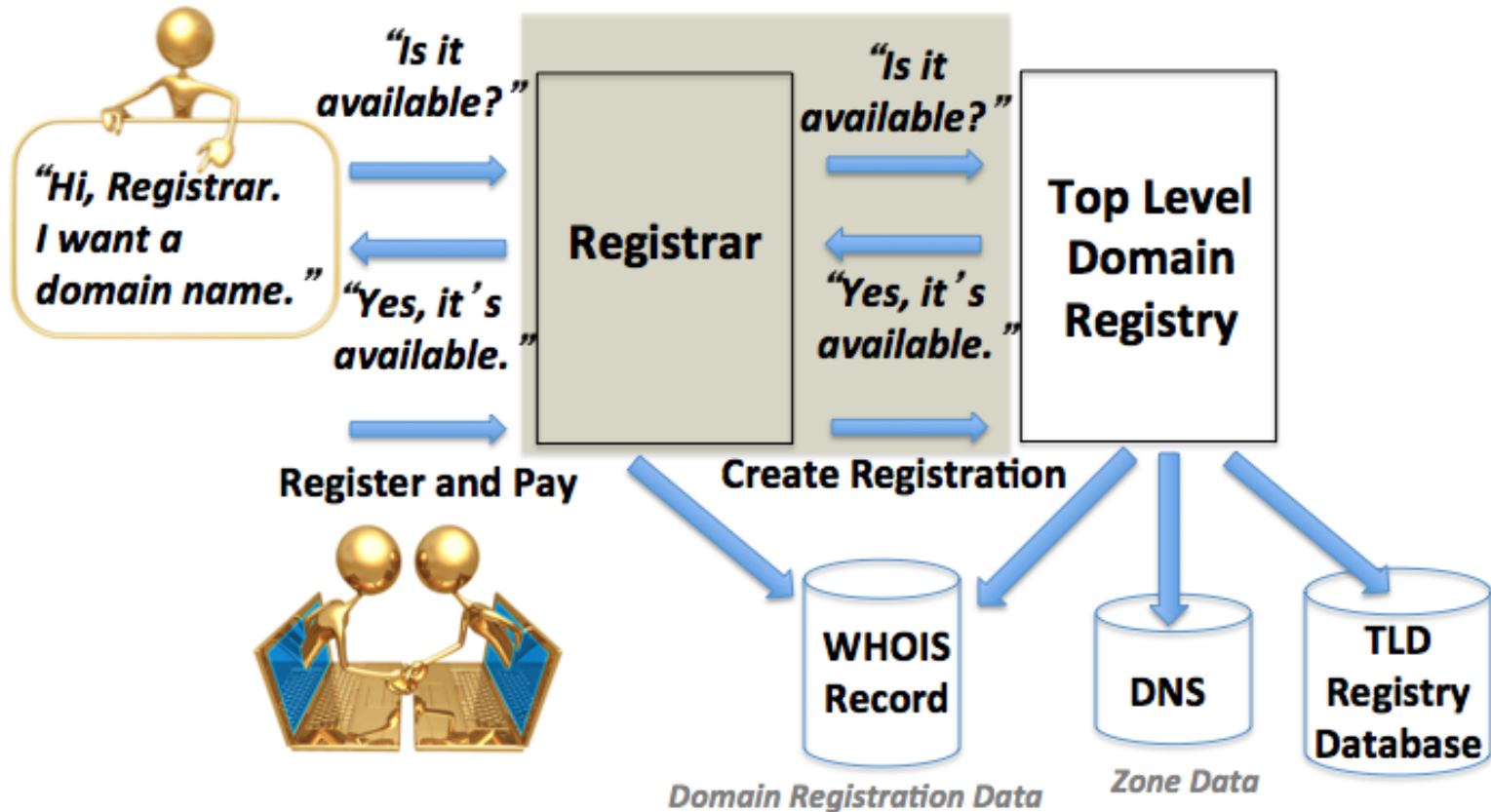
# Methodology

- 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



# 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

