Security and Stability Advisory Committee

Activities Update

ICANN Los Angeles Meeting
October 2014

Agenda

1. Overview (5 minutes)
2. Recent Achievements (5 minutes)
3. IANA Functions Stewardship Transition (25 minutes)
4. Work in Progress and Future Milestones (5 minutes)
5. New Work Parties (10 minutes)
6. Interaction with the Community (10 minutes)

Overview

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Security and Stability Advisory Committee (SSAC) Overview

- 2001: SSAC initiated; 2002: Began operation.

- Provides guidance to ICANN Board, Supporting Organizations and Advisory Committees, staff and general community.

- Charter: To advise the ICANN community and Board on matters relating to the security and integrity of the Internet's naming and address allocation systems.

- Patrik Fältström, Chair; Jim Galvin, Vice Chair (re-elected to 3-year terms beginning 2015); Ram Mohan, Board Liaison (3-year term ending 31 December 2015).

- Members as of October 2014: 40; appointed by ICANN Board for 3-year terms.

Recent Achievements

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2014 Achievements

– Publications Since ICANN-50 London:

• [SAC068]: SSAC Report on the IANA Functions Contract – 13 October 2014

• [SAC067]: Overview and History of the IANA Functions – 15 August 2014

– Publications Since ICANN-49 Singapore:

• [SAC066]: SSAC Comment on JAS Phase I Report on Mitigating the Risk of DNS Namespace Collisions – 06 June 2014

– Publications since ICANN-48 Buenos Aires:

• [SAC065]: SSAC Advisory on DDoS Attacks Leveraging DNS Infrastructure – 18 February 2014

• [SAC064]: SSAC Advisory on DNS "Search List" Processing – 13 February 2014

IANA Functions Stewardship Transition

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Background

- On 14 March 2014, the U.S. Commerce Department's National Telecommunications and Information Administration (NTIA) announced its intention to transition out of its current role with respect to the Internet Assigned Numbers Authority (IANA) Functions.

- NTIA called on ICANN to "convene global stakeholders to develop a proposal to transition the current role played by NTIA in the coordination of the Internet's domain name system (DNS)."

Background, Cont.

- IANA is a traditional name used "to refer to the technical team making and publishing assignments of Internet protocol technical parameters."

- This technical team performs a set of tasks that involve the administration or coordination of many of the identifiers that allow the global Internet to operate.

Background, Cont.

- As described in the current IANA Functions contract between ICANN and NTIA, the IANA Functions are:
  - Domain Name System (DNS) Root Zone Management;
  - Internet Numbers Registry Management;
  - Protocol Parameter Registry Management, including management of the "Address and Routing Parameter Area" (.ARPA) TLD; and
  - Management of the "INTernational treaty organizations" (.INT) top-level domain.

Overview and History of the IANA Functions

- SAC067 was published on 15 August 2014. The report:
  - Establishes a baseline of understanding for those interested in how the upper-most level of the Internet's system of unique identifiers is managed;
  - Describes the activities included in the IANA Functions contract; and
  - Describes the functions performed under the IETF MoU.
- The report focuses on:
  - The IANA Functions contract; and
  - Describes all of the activities related to the IANA Functions as they are currently performed, including those that lie outside of the IANA Functions contract.

Report on the IANA Functions Contract

SAC068 was published on 13 October 2014:

- In this report the SSAC:
  - Provides an overview of the key elements of the IANA Functions contract; and
  - Documents the role that NTIA currently plays with respect to the IANA Functions based on current public contractual information.
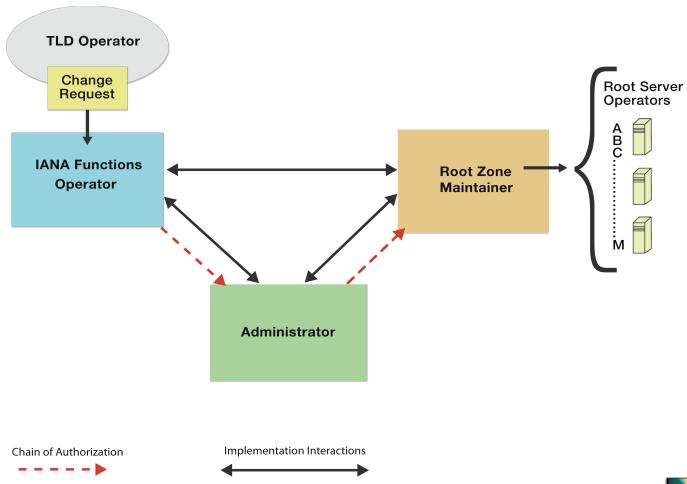
NTIA and IANA Functions

IANA Functions	Involved Parties	NTIA Role
DNS Root Zone Management	ICANN, NTIA and Verisign	IANA Functions Contract Administrator and Root Zone Management Process Administrator
Internet Numbers Registry Management	ICANN under authority of Regional Internet Registries and their communities	IANA Functions Contract Administrator
Protocol parameter registry management	ICANN under authority of The Internet Engineering Task Force (IETF) / Internet Architecture Board (IAB)	IANA Functions Contract Administrator
.ARPA and .INT management	ICANN under authority of IETF/IAB and other existing processes	IANA Functions Contract Administrator

NTIA and Root Zone Management

TLD Operator

Change Request

IANA Functions Operator

Root Zone Maintainer

Root Server Operators

A
B
C
.
.
.
M

Administrator

Chain of Authorization

Implementation Interactions

Advisory on the Principles

- This advisory will be published in Q4 2014.

- In this advisory the SSAC will:

  o Provide recommendations concerning the principles that should be applied in the IANA functions stewardship transition.

Work in Progress and Future Milestones

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Work in Progress

- IANA Functions Stewardship Transition
- Public Suffix Lists Work Party
- Advisory Resulting from the SSAC Workshop at 2014 Internet Governance Forum
- Membership Committee (Ongoing)
- DNSSEC Sessions at ICANN 51

Future Milestones

Q3 2014:

- SAC068: SSAC Report on IANA Functions Contract

Q4 2014:

- Advisory on Principles for the Transition of the Stewardship of the IANA Function

- Advisory on Public Suffix Lists

- Advisory on IGF Workshop Topic

New Work Parties

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New Work Parties

- New gTLDs: Mid-course Correction, Collisions, Timing of Next Round
  - Call for volunteers
  - Developing Charter
- Registrant Protection/Credential Management
  - Call for volunteers
  - Developing Charter

Questions from the Community

- How does the SSAC prioritize new work?

- How does the SSAC address requests from the ICANN Board and the community?

- How does the SSAC communicate its work?

Interaction with the Community

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Questions to the Community

- Are the SSAC publications accessible and understandable?

    - How is the length (long, short, just right?)

    - How is the level of detail?

    - Do the publications reach their audience?

- How can the SSAC do a better job for the community?

- What can the SSAC do differently?

- What topics are missing from the current list of work parties?

Thank You