



SSAC Activities Update

Patrik Fältström, SSAC Chair | ICANN-54 | October 2015

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Security and Stability Advisory Committee (SSAC)

Who We Are



⦿ 35 Members



⦿ Appointed by the ICANN Board

What We Do

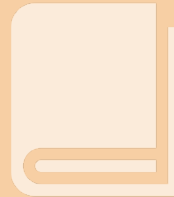


Charter: Advise the ICANN community and Board on matters relating to the security and integrity of the Internet's naming and address allocation systems.

What is Our Expertise

- Addressing and Routing
- Domain Name System (DNS)
- DNS Security Extensions (DNSSEC)
- Domain Registry/Registrar Operations
- DNS Abuse & Cybercrime
- Internationalization
(Domain Names and Data)
- Internet Service/Access Provider
- ICANN Policy and Operations

How We Advise



**73 Publications
since 2002**

⦿ **REPORTS** ⦿ **ADVISORIES** ⦿ **COMMENTS**

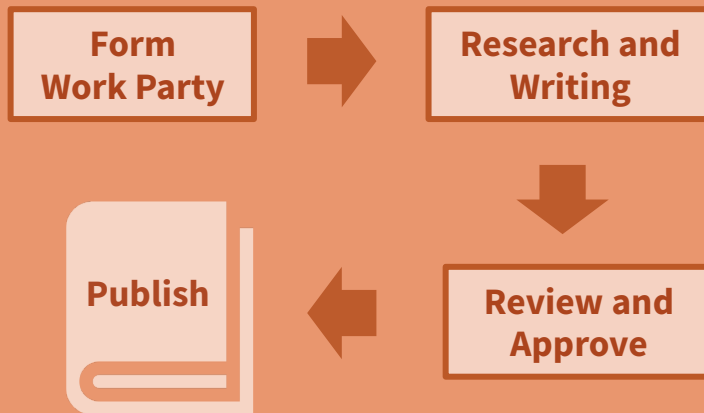
OUTREACH

Security and Stability Advisory Committee (SSAC)

ICANN's Mission & Core Value

- ⦿ To ensure the stable and secure operation of the Internet's unique identifier systems.
- ⦿ Preserving and enhancing the operational stability, reliability, security and global interoperability of the Internet.

SSAC Publication Process



Consideration of the SSAC Advice

(to the ICANN Board)

SSAC Submits Advice to ICANN Board

Board Acknowledges & Studies the Advice

Board Takes Formal Action on the Advice

1. Policy Development Process

3. Dissemination of Advice to Affected Parties

2. Staff Implementation with Public Consultation

4. Chose different solutions (explain why advice is not followed)

Security and Stability Advisory Committee (SSAC)

Current Work Parties

- ⦿ New gTLDs Program Review
- ⦿ Registrant Protection
- ⦿ DNSSEC Workshops
- ⦿ IPv4 Address Exhaustion
- ⦿ Tracking Board Advice
- ⦿ Membership Committee

Recent Publications

[SAC073]: Comments on Root Zone Key Signing Key Rollover Plan

[SAC072]: Comment on the Cross Community Working Group on Naming Related Functions Proposal (24 June 2015)

[SAC071]: Comments on Cross Community Working Group Proposal on ICANN Accountability Enhancements (08 June 2015)

Outreach



ssac.icann.org



www.facebook.com/pages/SSAC/432173130235645



SSAC Intro: www.icann.org/news/multimedia/621



SAC067 & 68: www.icann.org/news/multimedia/729

ICANN | SSAC

Security and Stability Advisory Committee

A world map composed of a network of white dots and lines on an orange background. The dots represent nodes and the lines represent connections, forming a complex web that outlines the continents.

Work in Progress and Future Milestones

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Current Work in Progress

- ⦿ New gTLDs: Mid-Course Correction, Collisions, Timing of Next Round
- ⦿ Registrant Protection/Credential Management
- ⦿ IGF Workshop
- ⦿ IPv4 Address Exhaustion
- ⦿ DNSSEC Sessions at ICANN Meetings (Ongoing)
- ⦿ Document Management Tools (Internal Guidance)
- ⦿ Board Advice Tracking (Ongoing)
- ⦿ Membership Committee (Ongoing)

Future Milestones



➤ DNSSEC Workshop at ICANN 54

✓ SAC073: SSAC Comments on ICANN Root Zone Key Signing Key Rollover Plan

➤ Advisory on Registrant Protection/Credential Management

➤ Advisory on New gTLDs Program Review
➤ DNSSEC Workshop at ICANN 55



**SAC073: SSAC Comments on
ICANN Root Zone Key Signing
Key Rollover Plan**

Patrik Fältström

- Thanks the KSK Rollover Plan Design Team
- Noted that the SSAC produced a document (SAC 063).
- In SAC 063, the SSAC discussed:
 - Key management in the root zone;
 - Motivations for root zone KSK rollover;
 - Risks associated with root zone KSK rollover, available mechanisms for root zone KSK rollover;
 - Quantifying the risk of failed trust anchor update, and DNS response size considerations.

- The SSAC also notes that:
 - SAC 063 contained five recommendations for ICANN and the root zone management partners.
 - There is not a comprehensive correlation of the recommendations in SAC63 with material presented in the ICANN KSK Rollover Plan.
- Asks the design team to respond directly in its final report to each of the recommendations in SAC 063, and provide rationale if it chooses not to address the SSAC recommendations.

The background of the slide is a solid orange color. Overlaid on this is a stylized world map. The map is constructed from a network of small white dots connected by thin white lines, creating a mesh-like structure that outlines the continents. The text is centered over the map.

**Registrant Protection: Best Practices
for Preserving Security and Stability
in the Credential Management
Lifecycle**

- Attacks that compromise registrant data and/or the DNS settings of domain names continue to be a significant problem for registrars and registries, as well as for the registrants themselves and the users of their sites.
- Advisory provides:
 - Background about the problem;
 - Specific best practice guidelines that will help registrars and registries enhance the security of domain names and the systems that support them;
 - Recommendations for ICANN and the Community.

⦿ Will address:

- ⦿ Credential lifecycle best practices for creating, distributing, storing, renewing, transferring, revoking and recovering name credentials;
- ⦿ All credentials used to provide authentication of an identity critical to the domain name ecosystem; and
- ⦿ Any relevant policy issues that can support or hinder credential management.



Community Interaction

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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 track the Board's response to SSAC advice?
- ⦿ How does the SSAC inform the community of its work?

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?

A world map where the continents are defined by a complex network of white nodes and connecting lines, set against a dark blue background. The nodes vary in size and are densely packed in some areas, creating a digital or network-like appearance of the globe.

Thank you