Agenda

1. Overview
2. Work in Progress and Future Milestones
3. SSAC Publications Since ICANN 54
4. Recent Publications
5. Community Interaction
## Security and Stability Advisory Committee (SSAC)

### Who We Are
- **30 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
- **80 Publications since 2002**
  - REPORTS
  - ADVISORIES
  - COMMENTS

---

**OUTREACH**
ICANN’s Mission & Core Values

- 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

1. Form Work Party
2. Research and Writing
3. Review and Approve
4. Publish

Consideration of the SSAC Advice

(to the ICANN Board)

1. SSAC Submits Advice to ICANN Board
2. Board Acknowledges & Studies the Advice
3. Board Takes Formal Action on the Advice
4. Chose different solutions (explain why advice is not followed)
# Security and Stability Advisory Committee (SSAC)

## Current Work Parties
- Name Space
- IDN Harmonization
- Auction Proceeds
- DNSSEC Workshops (Ongoing)
- Tracking Board Advice (Ongoing)
- Membership Committee (Ongoing)

## Recent Publications

<table>
<thead>
<tr>
<th>SAC Reference</th>
<th>Title</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAC080</td>
<td>SSAC Approval of CCWG-Accountability Supplemental Final Proposal on Work Stream 1 Recommendations (02 March 2016)</td>
<td>02 March 2016</td>
</tr>
<tr>
<td>SAC079</td>
<td>SSAC Advisory on the Changing Nature of IPv4 Address Semantics (29 February 2016)</td>
<td>29 February 2016</td>
</tr>
<tr>
<td>SAC078</td>
<td>SSAC Advisory on Uses of the Shared Global Domain Name Space (16 February 2016)</td>
<td>16 February 2016</td>
</tr>
<tr>
<td>SAC077</td>
<td>Comment on gTLD Marketplace Health Index Proposal (22 January 2016)</td>
<td>22 January 2016</td>
</tr>
</tbody>
</table>

## Outreach
- [www.facebook.com/pages/SSAC/432173130235645](http://www.facebook.com/pages/SSAC/432173130235645)
- SSAC Workshops at the Internet Governance Forum
Work in Progress and Future Milestones

Patrik Fältström
Current Work in Progress

- Name Space
- Auction Proceeds
- IDN Harmonization
- DNSSEC Sessions at ICANN Meetings (Ongoing)
- Board Advice Tracking (Ongoing)
- Membership Committee (Ongoing)
Future Milestones

- **Q1 2016**
  - SAC080: SSAC Approval of CCWG-Accountability Supplemental Final Proposal on Work Stream 1 Recommendations
  - SAC079: SSAC Advisory on the Changing Nature of IPv4 Address Semantics
  - SAC078: SSAC Advisory on Uses of the Shared Global Domain Name Space
  - SAC077: Comment on gTLD Marketplace Health Index Proposal

- **Q2 2016**
  - Possible further work on Namespace
  - DNSSEC Workshop at ICANN 56
  - Advisory on IDN Harmonization
SSAC Publications Since ICANN 54
SSAC Publications Since ICANN 54

- [SAC080]: SSAC Approval of CCWG-Accountability Supplemental Final Proposal on Work Stream 1 Recommendations (02 March 2016)
- [SAC079]: SSAC Advisory on the Changing Nature of IPv4 Address Semantics (29 February 2016)
- [SAC078]: SSAC Advisory on Uses of the Shared Global Domain Name Space (18 February 2016)
- [SAC077]: SSAC Comment on gTLD Marketplace Health Index Proposal (22 January 2016)
- [SAC076]: SSAC Comment on the CCWG-Accountability 3rd Draft Proposal (21 December 2015)
- [SAC075]: SSAC Comments to ITU-D on Establishing New Certification Authorities (03 December 2015)
- [SAC074]: SSAC Advisory on Registrant Protection: Best Practices for Preserving Security and Stability in the Credential Management Lifecycle (03 November 2015)
Recent Publications
Patrik Fältström
SAC080: SSAC Approval of CCWG-Accountability Supplemental Final Proposal on Work Stream 1 Recommendations
• The SSAC, as a Chartering Organization of the ICANN Cross-Community Working Group on Accountability, was invited on 23 February 2016 to consider and approve the Working Group’s Supplemental Final Proposal on Work Stream 1 Recommendations.

• The SSAC, having duly considered it, hereby approves the Supplemental Final Proposal and congratulates the Working Group on its accomplishment.
SAC079: SSAC Advisory on the Changing Nature of IPv4 Address Semantics
In this advisory, the SSAC considers the changing role of Internet Protocol Version 4 (IPv4) addresses caused by the increasing scarcity, and subsequent exhaustion, of IPv4 addresses.

Implications:

- An IPv4 address does not necessarily identify an endpoint anymore.
- An IPv4 address alone may not be sufficient to correlate Internet activity observations with an endpoint.
• Specific recommendations:
  • Network operators should accelerate plans to deploy IPv6, and consider the consequences of deploying IPv4 continuation technologies, such as NAT, prior to deployment.
  • Device manufacturers should accelerate plans to support IPv6 as well as, or better, than they currently support IPv4.
SAC078: SSAC Advisory on Uses of the Shared Global Domain Name Space
SAC078: Overview

• Purpose is to raise awareness of multiple uses of the domain name space

• Examples:
  • [https://facebookcorewwwi.onion/](https://facebookcorewwwi.onion/)
  • MyComputer.local
  • These names exist in the domain name space, but use resolution methods other than DNS.

• Discussions and ongoing work in multiple venues to more fully define:
  • what a namespace is; and
  • how to avoid potential side effects.
SAC077: SSAC Comment on gTLD Marketplace Health Index Proposal
Overview

• Overall feedback: ICANN is approaching the KPI problem backwards by starting with data that is already easily available.

• Specific recommendations:
  
  • ICANN should collect and disseminate information about known categories of how domain name registrations are used for abusive and fraudulent purposes.
  
  • SSAC supports ICANN’s proposal to report number of security breaches, recommends adding types of breach, number of similar breaches, number of affected users.
• Specific recommendations (cont.):
  
  • ICANN should consider integrating external sources of information on DNSSEC in new gTLDs, showing signed domains per TLD, and by registrar.

  • ICANN should include the frequency and impact of TLD registries and/or registrars going out of business or merging with other businesses.
Community Interaction
Patrik Fältström
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?
Thank you