

# SSAC Activities Update

Patrik Fältström, SSAC Chair | ICANN-55 | March 2016

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# Security and Stability Advisory Committee (SSAC)

## Who We Are



⦿ 30 Members



⦿ Appointed by the ICANN Board

## What We Do

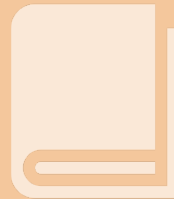


Charter: Advise the ICANN community and Board on matters relating to the security and integrity of the Internet's naming and address allocation systems.

## 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**

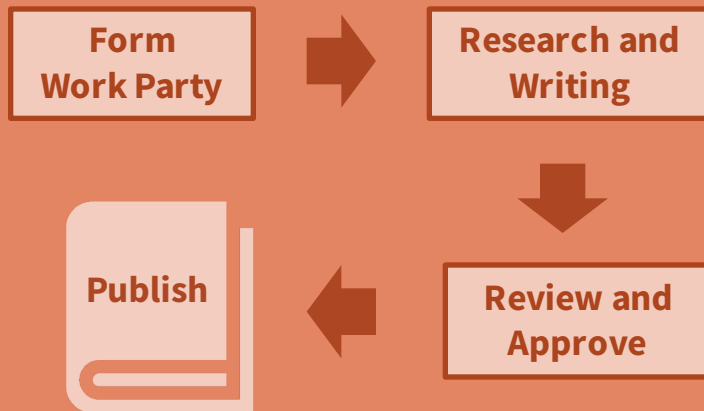
**OUTREACH**

# Security and Stability Advisory Committee (SSAC)

## 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



## 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

- ⦿ Name Space
- ⦿ IDN Harmonization
- ⦿ Auction Proceeds
- ⦿ DNSSEC Workshops (Ongoing)
- ⦿ Tracking Board Advice (Ongoing)
- ⦿ Membership Committee (Ongoing)

## Recent Publications

[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 (16 February 2016)

[SAC077]: Comment on gTLD Marketplace Health Index Proposal (22 January 2016)

## Outreach



ssac.icann.org and SSAC Intro:  
[www.icann.org/news/multimedia/621](http://www.icann.org/news/multimedia/621)



[www.facebook.com/pages/SSAC/432173130235645](https://www.facebook.com/pages/SSAC/432173130235645)



SAC067 SSAC Advisory on Maintaining the Security and Stability of the IANA Functions Through the Stewardship Transition and SAC068 SSAC Report on the IANA Functions Contract: [www.icann.org/news/multimedia/729](http://www.icann.org/news/multimedia/729)

SSAC Workshops at the Internet Governance Forum

# ICANN | SSAC

Security and Stability Advisory Committee

A world map where the continents are defined by a network of white dots connected by thin white lines. The background is a solid orange color. The text is overlaid on the left side of the map.

# **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

Q2  
2016

Q3  
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

- Possible further work on Namespace
- DNSSEC Workshop at ICANN 56
- Advisory on IDN Harmonization



The background of the slide is a solid orange color. Overlaid on this is a stylized world map. The map is formed by a network of white dots of varying sizes, connected by thin white lines. The dots are more densely packed in some areas, particularly in North America and Europe, and more sparse in others. The overall effect is a digital, interconnected representation of the world's geography.

# **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)

A world map where the continents are defined by a network of white dots connected by thin white lines. The background is a solid orange color. The text is overlaid on the left side of the map.

# **Recent Publications**

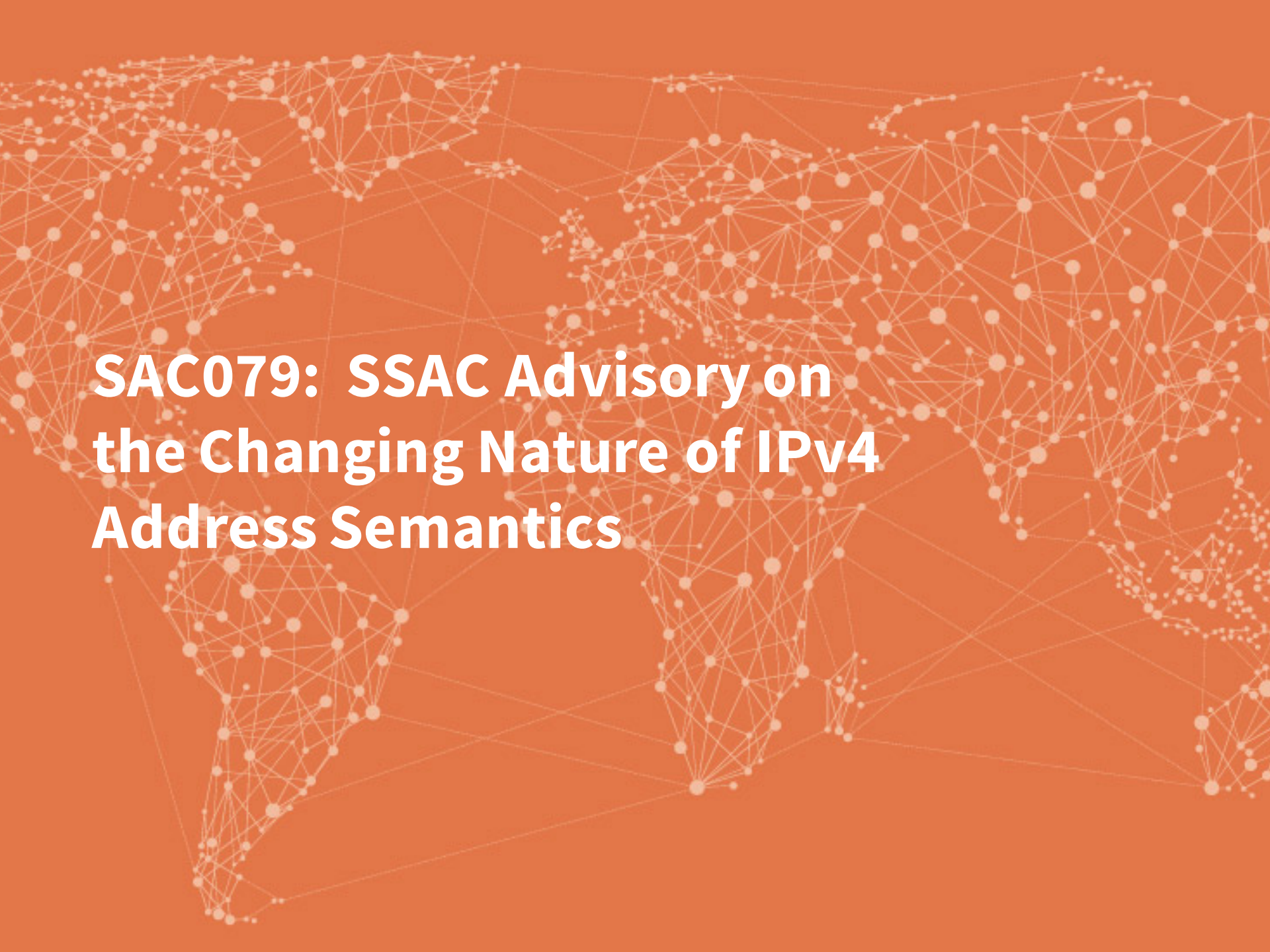
Patrik Fältström

A world map composed of a network of white dots and lines on an orange background. The dots are of varying sizes and are connected by thin white lines, creating a complex, interconnected web that outlines the continents. The background is a solid, vibrant orange color.

**SAC080: SSAC Approval of CCWG-  
Accountability Supplemental Final  
Proposal on Work Stream 1  
Recommendations**

# Overview

- 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**

# SAC079: Overview

- 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.



The background of the slide is a solid orange color. Overlaid on this is a stylized world map. The map is not a solid shape but is composed of a network of white dots of varying sizes connected by thin white lines. The dots are more densely packed in some areas, particularly in North America and Europe, and more sparse in others, like Africa and South America. The overall effect is a digital, interconnected globe.

# **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://facebookcorewwi.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.

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 represents the geographical outlines of the continents. The text is centered on the left side of the map.

**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?



A world map where the continents are defined by a complex network of white dots and thin white lines. The dots vary in size, and the lines connect them to form a web-like structure that outlines the major landmasses. The background is a solid, dark blue color.

**Thank you**