

# **Second Security, Stability, and Resiliency Review Team (SSR2)**

**Community Webinar**

11 February @ 15:00 UTC



# Security, Stability, and Resilience

SSR is one of 4 bylaw-mandated community reviews identified as key transparency and accountability safeguard post IANA transition

*'The Board shall cause a periodic review of ICANN's execution of its commitment to enhance the operational stability, reliability, resiliency, security, and global interoperability of the systems and processes, both internal and external, that directly affect and/or are affected by the Internet's system of unique identifiers that ICANN coordinates ("SSR Review").' -- Section 4.6(c)*

## SSR Assessments **shall** include:

- the extent to which ICANN has successfully implemented its security efforts, the effectiveness of the security efforts to deal with actual and potential challenges and threats to the security and stability of the DNS, and the extent to which the security efforts are sufficiently robust to meet future challenges and threats to the security, stability and resiliency of the DNS, consistent with ICANN's Mission
- the extent to which prior SSR Review recommendations have been implemented and the extent to which implementation of such recommendations has resulted in the intended effect.

## SSR Assessments **may** also include:

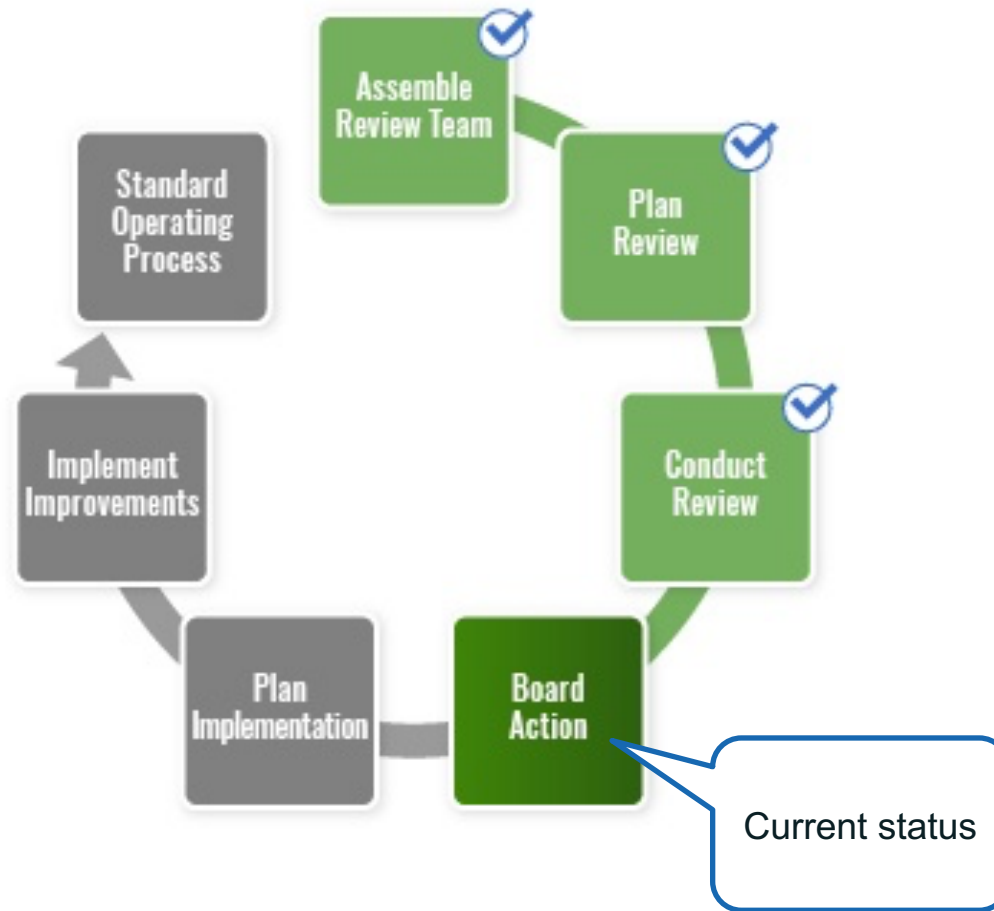
- security, operational stability and resiliency matters, both physical and network, relating to the coordination of the Internet's system of unique identifiers;
- conformance with appropriate security contingency planning framework for the Internet's system of unique identifiers; and
- maintaining clear and globally interoperable security processes for those portions of the Internet's system of unique identifiers that ICANN coordinates.

# SSR2 Review Team

RT Member	SO / AC Affiliation	Region
Alain Aina	ccNSO	AF
Noorul Ameen	GAC	AP
Kerry-Ann Barrett	GAC	LAC
KC Claffy	SSAC	NA
Russ Housley (Chair)	SSAC	NA
Danko Jevtovic	Board	EUR
Žarko Kecić	ccNSO	EUR
Boban Krsic	ccNSO	EUR
Jabhera Matogoro	ALAC	AF
Scott McCormick	GNSO	NA

RT Member	SO / AC Affiliation	Region
Denise Michel (Vice-Chair)	GNSO	NA
Eric Osterweil (Vice-Chair)	RSSAC	NA
Ramkrishna Pariyar	ALAC	AP
Rao Naveed bin Rais	GNSO	AP
Kaveh Ranjbar	Board	EUR
Norm Ritchie	GNSO	NA
Laurin Weissinger (Vice-Chair)	ALAC	EUR

# Review Process



See:

<https://www.icann.org/resources/pages/strategic-engagement-2013-10-10-en>

SSR2 Recommendations are tied back to  
the 2021-2025 ICANN Strategic Plan

# SSR2 RT Focus Areas

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1

## Workstream 1:

SSR1 implementation and impact

2

## Workstream 2:

Key security, stability, and resiliency issues within ICANN

3

## Workstream 3:

Security, stability, and resilience of the DNS

4

## Workstream 4:

Future challenges

# Public Consultation

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Public Comment (24 January 2020 through 20 March 2020) resulted in 371 comments

<https://www.icann.org/public-comments/ssr2-rt-draft-report-2020-01-24-en>

## Results

- Significant restructuring of the document
- Clarification and consolidation of many of the recommendations

Every comment received a response. See Appendix H in the final report for a link to the public comment response.

# Final Report



# Recommendations

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- Recommendations are significantly revised and consolidated
- Recommendations are written according to the SMART criteria where possible: *specific, measurable, assignable, relevant, and trackable*.  
Making the recommendations fully SMART will require thought and action from the implementation.
- Total number of recommendations:  
24 groups of recommendations, resulting in 63 specific recommendations
- Full consensus achieved

# Revised Document Structure

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- SSR1 Implementation (1 specific recommendation)
- Key Stability Issues within ICANN (21 specific recommendations)
- Contracts, Compliance, and Transparency around DNS Abuse (25 specific recommendations)
- Additional SSR-Related Concerns Regarding the Global DNS (16 specific recommendations)
- Extensive Appendixes

# SSR1 Implementation

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- Bylaw-mandated goal: assess *“the extent to which prior SSR Review recommendations have been implemented and the extent to which implementation of such recommendations has resulted in the intended effect.”*
- All SSR1 recommendations remain relevant; none were implemented fully.
- SSR1 Recommendations were difficult to measure

# Key Stability Issues within ICANN

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- Considered in this section:
  - security, operational stability, and resiliency matters, both physical and network, relating to the coordination of the Internet's system of unique identifiers;
  - security contingency planning framework for the Internet's system of unique identifiers;
  - completeness and effectiveness of ICANN org's internal security processes and the ICANN security framework.
- Resulting recommendations considered:
  - Org structure
  - Budgets and Reporting
  - Risk management
  - Business Continuity and Disaster Recovery

# Contracts, Compliance, and Transparency around DNS Abuse

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- Considered ICANN's role and influence regarding SSR in the global DNS
- Recommendations covered:
  - Unachieved Safeguards for the New gTLD Program
  - Challenges: Definitions and Data Access
  - PDP Alternatives
  - Privacy and Data Stewardship

# Additional SSR-Related Concerns Regarding the Global DNS

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- Addressed a variety of other SSR-related issues observed over the course of the review
- Recommendation topics:
  - Name collision
  - Research and Briefings
  - DNS Testbed
  - Root Zone and Registry Concerns
  - Emergency Back-End Registry Operator (EBERO)

# Extensive Appendixes

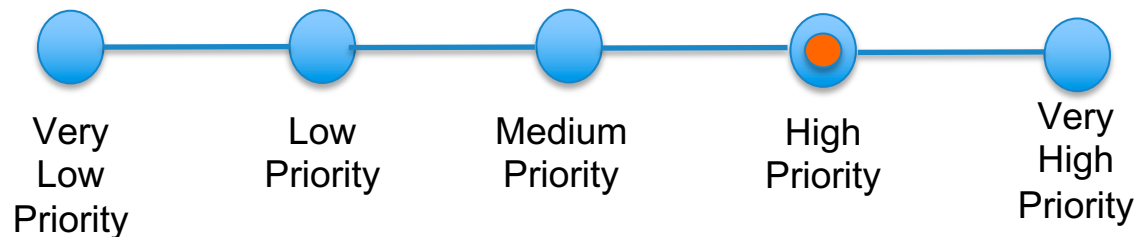
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- Included suggestions to improve the process of future reviews
- Detailed descriptions of the review processes and methodologies
- Full findings related to the SSR1 evaluation
- Research on DNS Abuse, relevant cryptography issues
- Mapping of SSR2 recommendations against relevant Bylaws and ICANN strategic plan goals
- Responses to 100+ public comments received on the draft report

# Prioritization

- SSR2 RT members polled via Qualtrics for their inputs on recommendation priority

Available scale: Very Low Priority, Low Priority, Medium Priority, High Priority, to Very High Priority.



- Of the 24 groups of recommendations
  - 27 specific recommendations = High
  - 9 specific recommendations = Medium-High
  - 18 specific recommendations = Medium
  - 8 specific recommendations = Low



# Implementation Shepherds

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- Kerry-Ann Barrett
  - KC Claffy
  - Russ Housley
  - Laurin Weissinger
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- Implementation Shepherds are the first contact for any questions or clarifications the Board seeks as it considers the recommendations, and ICANN org seeks once the implementation is underway.

# Next Steps

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- Public Comment is open until 9 March 2021.
- The Board will consider the Public Comment submissions received, and a feasibility analysis and impact assessment of the implementation of recommendations,
- The Board will take action on SSR2 recommendations within six months of receipt of the report, by 25 July 2021.

# Wrap Up

# Additional Links

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## ICANN ByLaws – Section 4, “Accountability and Review”

- <https://www.icann.org/resources/pages/governance/bylaws-en/#article4>

## SSR2 Final Report & Public Comment

- <https://www.icann.org/en/system/files/files/ssr2-review-team-final-report-25jan21-en.pdf>
- <https://www.icann.org/public-comments/ssr2-final-report-2021-01-28-en>



## Thank You and Questions

Visit our wiki at <https://community.icann.org/x/AE6AAw>  
Email (publicly archived): [input-to-ssr2@icann.org](mailto:input-to-ssr2@icann.org)