

# Second Security, Stability, and Resiliency of the Domain Name System Review Team (SSR2)

ICANN60

October 2017



# What Does ICANN Do?

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- ⦿ The overarching principle of ICANN's activities is the security, stability, and resiliency of the Internet's system of unique identifiers.

So how are we doing?

- ⦿ Every 5 years the SSR Review examines ICANN activities and looks at effectiveness in addressing our concerns over security and stability
  - SSR is one of the four community reviews mandated by ICANN Bylaws

# Mandate

The SSR2 Review Team is assessing the:

- ⦿ Extent to which ICANN has successfully implemented its security, stability and resiliency efforts in relation to how it manages the unique identifiers in which it coordinates.
- ⦿ Effectiveness of security, stability and resiliency efforts to deal with challenges/threats to the security and stability of the DNS.
- ⦿ Extent to which security, stability, and resiliency efforts are fully robust to meet future challenges/threats to the security, stability and resiliency of the DNS.
- ⦿ Extent to which SSR1 Recommendation have been implemented



*The Review Team's mandate can be found in ICANN's Bylaws, Section 4.6(c)*

# Security, Stability, and Resiliency are Big Topics

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- ⦿ There is a large scope of work here, given that security, stability and resiliency applies to almost everything we do
- ⦿ We've had to review a large set of material to establish current context
- ⦿ We've had to call upon a diverse set of skills and experience from our team
  
- ⦿ We want to be thorough and thoughtful
- ⦿ We want our report to be helpful
- ⦿ So this review is not a quick exercise

# Composition of Review Team

| Name*                     | SO/AC Affiliation | Region |
|---------------------------|-------------------|--------|
| Alain Aina                | ccNSO             | AF     |
| Noorul Ameen              | GAC               | AP     |
| Kerry-Ann Barrett         | GAC               | LAC    |
| Don Blumenthal            | SSAC              | NA     |
| James Gannon              | GNSO              | EUR    |
| Mohamad Amin Hasbini      | GAC               | AP     |
| Geoff Huston              | SSAC              | AP     |
| Žarko Kecić               | ccNSO             | EUR    |
| Boban Krsic               | ccNSO             | EUR    |
| Jabhera Matogoro          | ALAC              | AF     |
| Denise Michel (Co-Chair)  | GNSO              | NA     |
| Eric Osterweil (Co-Chair) | RSSAC             | NA     |
| Ram Krishna Pariyar       | ALAC              | AP     |
| Kaveh Ranjbar             | Board appointee   | EUR    |
| Norm Ritchie              | GNSO              | NA     |

\*Former Team Members: Emily Taylor, GNSO, EU; Cathy Handley, RSSAC, NA

# Five Key Areas of Review

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1

ICANN's implementation of 28 SSR1 recommendations from 2012

2

ICANN's key security, stability, and resiliency activities

3

Activities that impact the SSR of the Domain Name System (that ICANN contributes to/facilitates).

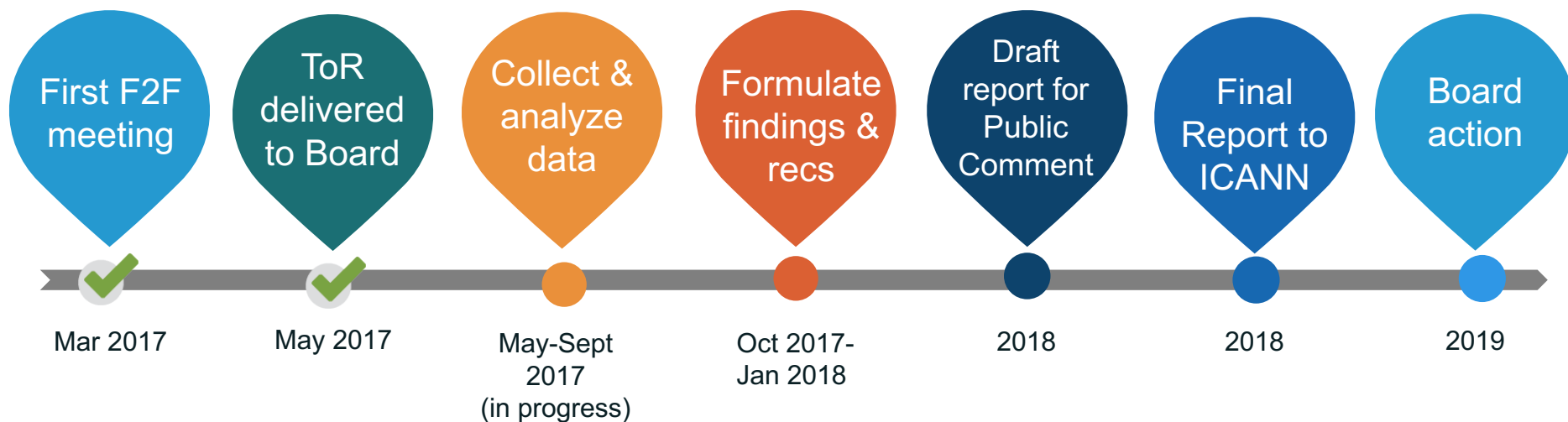
4

Challenges to the secure and resilient operation of the unique identifiers system




5

The impact of the IANA stewardship transition on SSR

# SSR2: Review Timeline



# Key Milestones

| Activity   | Date           | Status  |
|--|----------------|---|
| Launched info gathering, SSR1 briefings, outreach, and Review Team agreed to leadership by three Co-Chairs : <ul style="list-style-type: none"> <li>• Denise Michel, GNSO; Eric Osterweil, RSSAC; Emily Taylor, GNSO (resigned July 2017)</li> </ul>   | March 2017     |  |
| Briefings, due diligence, info gathering, community updates ongoing; sub-groups formed and draft work topics identified in 5 key areas: <ul style="list-style-type: none"> <li>• SSR1 Implementation</li> <li>• ICANN SSR</li> <li>• DNS SSR</li> <li>• Future Challenges</li> <li>• Impact of IANA transition on SSR</li> </ul> | May 2017       |  |
| RFP for Gap Analysis of Implementation of SSR1 Review Recommendations published  | September 2017 |  |
| More public consultation, outreach meetings with ICANN groups  | ICANN60        | Scheduled   |
| Drafting session for first draft of report   | January 2018   | Scheduled   |



# This Week at ICANN60

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- ⦿ We're meeting with SOs, ACs, Constituencies and everyone else  
Including you!
- ⦿ And we'll take an extra day this week before heading home to digest what we are learning from you this week
- ⦿ We're keen to continue the conversation as we progress through our work, so we'll try to keep in touch with you

# Your Turn

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We've told you that:

- ⦿ The SSR Review is a periodic activity that examines our activities and looks at our effectiveness in addressing our concerns over security and stability

Now we're listening to you:

- ⦿ So if you had just one topic relating to security, stability and resiliency of this identifier space that you think the review team should look at, what would it be?

# Additional Material

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You may find these slide useful to refer to later, so we've stuck them here at the back

# Opportunities to Participate

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- Input to the review: <http://mm.icann.org/pipermail/input-to-ssr2rt/>  
(**send input to public email: [input-to-ssr2rt@icann.org](mailto:input-to-ssr2rt@icann.org)**)
- Public consultation session - <http://sched.co/CbGX>
  - Sunday 29<sup>th</sup> October: 13:30 – 15:00 (Capital Suite 14)
- Be an observer at the SSR2 Face-to-Face meeting day 2 at ICANN60 - <http://sched.co/CbF7>
  - Friday 3<sup>rd</sup> November: 09:00 – 17:30 (Capital Suite 1)
- Become an observer to our regular meetings - send an email to [mssi-secretariat@icann.org](mailto:mssi-secretariat@icann.org)
- SSR2 wiki contains all of Team's work, emails, meeting records, regular newsletters:  
<https://community.icann.org/display/SSR/SSR2+Review>

# Key Progress

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- ⦿ SSR2's progress includes:
  - Terms of reference agreed in May by consensus
  - Significantly greater due diligence activity than SSR1
  - Development of key topics and issue areas for Team's initial focus
  - Working within sub-teams to increase throughput and efficiency
  - Working with outside help to complete gap analysis of SSR1 implementation
  - Face-to-face sessions have been effective in making substantive progress
    - For instance, the recent sub-team F2F (summary here: <https://community.icann.org/pages/viewpage.action?pageId=69277737>)
    - Madrid ICANN DNS Symposium
    - ICANN meetings, including ICANN60

# Fact Finding - Briefings and Documents

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- ⦿ Extensive review of background materials; 70+ reports, documentation including:
  - Mitigating unique identifier abuse
  - Registry and registration security and abuse
  - Operation of DNS root name system
  - Risk assessment and management
  - Incident response
  - PTI materials
  - SSR1 implementation
  
- ⦿ Over 20+ detailed briefings/discussions on SSR topics including:
  - Domain Abuse Reporting Tool
  - ITHI reporting
  - PTI-ICANN relationship
  - SSR1 implementation
  - ICANN's Security Framework and emerging threats
  - ICANN's Risk Management Framework
  - ICANN's Business Continuity strategies, objectives, plans and procedures
  - ICANN's operational planning and controls, and prioritized activity recovery strategy
  - ICANN's Incident Response Structure
  - ICANN's root server operations
  - ICANN's Global Domains Division activities that relate to SSR objectives

# Next Steps for SSR2

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- ⦿ Engagement at ICANN60
  - SSR2 Review Team Community Engagement Session
  - At-Large Advisory Committee (ALAC)
  - Address Supporting Organization (ASO)
  - Commercial Stakeholder Group (CSG)
  - Generic Names Supporting Organization (GNSO)
  - ICANN Board
  - Not-for-Profit Operational Concerns (NPOC)
  - Non-Commercial Users Constituency (NCUC)
  - Registries Stakeholder Group (RySG)
  - Root Server System Advisory Committee (RSSAC)
  - Security and Stability Advisory Committee (SSAC)
  
- ⦿ Face-to-Face follow up meeting directly after ICANN60
  
- ⦿ Community outreach will continue to be a cornerstone of our work
  
- ⦿ Potential further Face-to-Face meetings of sub-teams
  
- ⦿ Regular Review Team conference calls as SSR2 transitions to drafting and recommendations