



Support a healthy, stable and resilient unique identifier ecosystem Save Vocea | PacNOG18 | Guam, 30 Nov 2015

Overview







Internet Corporation for Assigned Names and Numbers (ICANN)

COMMUNITY

POLIC



ONE WORLD, ONE INTERNET

WHAT DOES ICANN DO?

To reach any device or thing connected to the Internet, you (or your search engine) must know their address – a name or a number. That address must be unique, so you can reliably find and connect to other devices, things, or information sources no matter where you are in the world. That's how the tens of thousands of physical networks appear and operate as 'One Internet'.

In concert with the technical operating community, ICANN maintains and administers the registries containing these unique addresses across the world ensuring the security, stability, and integrity of One Internet where we can reliably find each other.

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Community-Driven Global Policy Development

To keep pace with dynamic technologies and rapid innovation, ICANN facilitates an open, consensus-driven, multistakeholder policy development process that is run from the bottom up.

Multistakeholder Model

Civil Society & Internet Users, the Private Sector, National & International Organizations, Governments, Research, Academic and Technical Communities are all represented.

- A global multistakeholder, private sector organisation that manages Internet resources for the public benefit.
- Promotes competition and develops policy on the Internets unique identifiers
- Hub offices located in Los Angeles (HQ), Istanbul and Singapore
 - With engagement centers in Montevideo, Washington DC, Brussels, Geneva, Beijing and Seoul

Website: http://www.icann.org



ONE WORLD, ONE INTERNET



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ICANN Engagement (Oceania)

Updates from ICANN 54

- + Main discussions around IANA Stewardship Transition and ICANN accountability
 - + ICG concluded its work at ICANN54
 - + CCWG-Accountability to finalize a draft proposal to be put out for public comment
- + Supporting Organisation and Advisory Committees sessions
 - + ccNSO Tech Day
 - + ISP and Connectivity Providers meeting
- + New gTLDs update, Universal Acceptance, DNSSEC, SSR



Security, Stability, & Resiliency (SSR) A key pillar of ICANN





Root Servers to benefit Internet Stability and Resiliency



- Root server nodes keep Internet traffic local and resolve queries faster
- + Make it easier to isolate attacks
- Reduce congestion on international bandwidth
- Redundancy and load balancing with multiple instances

+ ICANN is the L-Root Operator



+Geographical diversity via Anycast +Over 160 dedicated servers + Presence on every continent +On normal basis 15,000 ~ 25,000 queries/sec +Approx. 2 billion DNS queries a day +We are supporting root server deployment in countries

+ Contact ICANN staff in the region

L-Root anycast server locations



Responding to the bad – Where does DNSSEC fits in

DNSSEC protects DNS data

- + CPU and bandwidth advances make legacy DNS vulnerable to MITM attacks
- + DNS Security Extensions (DNSSEC) introduces digital signatures into DNS to cryptographically protect contents
- + With DNSSEC fully deployed a business can be sure a customer gets un-modified data (and visa versa)



ICANN strongly supports DNSSEC

- Cyber security is becoming a greater concern to enterprises, government, and end users. DNSSEC is a key tool and differentiator.
- DNSSEC is the biggest security upgrade to Internet infrastructure in over 20 years. It is a platform for new security applications (for those that see the opportunity).
- DNSSEC infrastructure deployment has been brisk but requires expertise. Getting ahead of the curve is a competitive advantage.

DNSSEC supported ccTLD Map



SSR Capability Building



- Training and Outreach
 - Security, operations, and DNS/DNSSEC deployment training
 - for TLD registry operators
 - Network Operators / ISPs
 - Enterprises, Corporates etc.
 - Information gathering to identify Internet Identifier Systems abuse/misuse and Investigation Techniques
 - Law Enforcement Agencies
 - CERTs
 - Internet Investigators etc.

SSR Engagement in the Pacific

+ Engaging with Governments, LEA's and ccTLDs

- Pacific SSR Roadshow
- TO, KI, FJ (Apr'15)
- WS (Jul'15)
- NR, MH, FM, PW (Sep'15)
- + DNSSEC Workshop
- VU (Nov'14)



- Technical and Operational Forums
 - + Sponsorship funding, trainer resources etc.
 - + PacNOG Conferences



Conclusion

- Need for local stakeholders to engage in open, bottom up and transparent Internet governance processes
 - Have a voice at regional and International bodies/forum
- Promote and raise awareness of new business opportunities in the domain names industry
 - Strengthen local ccTLD management
 - Opportunities for Registry and Registrar operations
- Engage with ICANN
 - Join the ISP and Connectivity Providers (ISPCP) constituency
 - Register interests in capacity building and fellowships to meetings
 - Follow meetings remotely
 - Register and use for free ICANNLearn (self-paced learning)

Engage with ICANN



Thank You and Questions

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