

ICANN 48

Internet Society Security Initiatives and their impact on the region

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The Internet Invariants

- Global connectivity and integrity
 - Global reach and consistent view from any point
- Permission-free innovation
 - Yet undiscovered functionality
- Accessibility
 - Anyone can contribute and become part of it
- Spirit of cooperation
 - Foundation for evolution and resiliency



Complexity of Security landscape

- Global reach
 - attacks and cybercrime are cross-border
- Permission-free innovation
 - development and deployment of malware
- Open platform
 - open for attack and intrusion
- Voluntary collaboration
 - hard to mandate



Searching for Safety

- Risk management approach
 - There is no absolute security
- Managing “inward” and “outward” risks
 - Shared risk management and collective responsibility
- Multistakeholder participation
 - Common understanding of problems and solutions



Ingredients for cybersecurity solutions

- International cooperation
 - Most of the issues are cross-border
- Preservation of Internet values
 - A fine balance
- Technical foundation
 - Solutions based on open standards



From Global to Regional to National to local

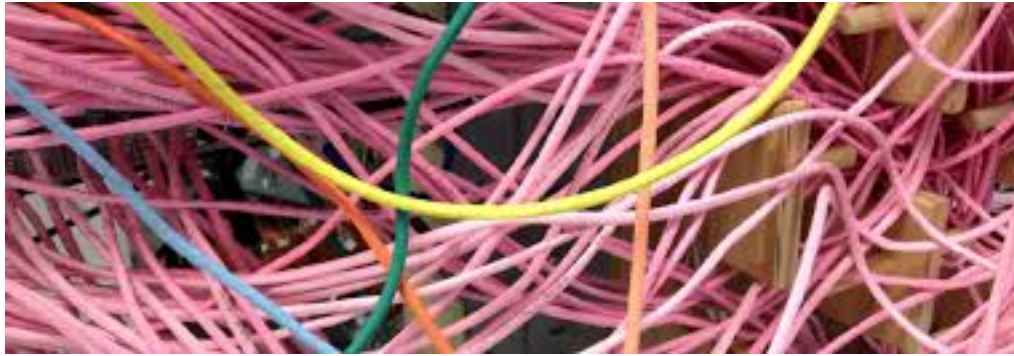


Trust and Identity



- + Identity Management
- + Kinds of identity
 - Credential
 - Attribute-based
- + Improving Privacy

Deploy360 Programme



to bridge the gap between the IETF standards process and final adoption

- + IPv6
- + DNSSEC
 - 135 of 332 TLDs are now signed.
 - newgTLDs are required to be signed

Want to learn more about DNSSEC? Attend the DNSSEC Workshop – Wednesday 09:45AM

- + Routing Resiliency

Routing Resiliency Manifesto

- Provide a framework for addressing issues
- Encourage ISPs to take measures
- Promote the culture of collective responsibility
- Demonstrate ability of the industry to address issues

Routing Resilience Survey: <https://www.internetsociety.org/rrs/>

Understanding of Internet-wide routing security issues

BCOP repositories

- Discussion groups inside RIR/NOG communities
- Operator-to-operator communication to agree on BCOPs
- Documents to share
- Operators to communicate their needs and wants from the standards process
- BCOP processes owned by operators' groups collectively

From Global to Regional

How are the initiatives brought into region



Regional Task Forces

- Training TF
- BCOPs TF
- Local NOGs
- IETF-LAC TF
- Cooperation with established regional Organizations
 - LACNIC
 - LACTLD
 - LAC-IX
 - EsLaRed - WALC
 - Citel
 - Etc.



From Regional to National

- Universities and Academia
- Promoting national NOGs
- IETF Fellows
- Working with IXPs
- Cooperation with Governments and Regulators
- ISOC Chapters

How can Internet Society help in your country?

