

Identifier Systems Security, Stability, and Resiliency Programs

Dave Piscitello, VP Security and ICT Coordination

This program note describes one of four IS SSR programs, **Capability Building**.

Projects in this program area

1. build on the successful knowledge transfer programs ICANN has developed and delivered to ccTLD operators, law enforcement, and staff with the goal of identifying programs that will not only be delivered to current and new audiences but also used as part of a “technical onboarding” of staff to raise the general technical competency at ICANN.



2. Lending competencies to the community by educating and raising awareness of security, not only within the scope of Identifier Systems but in the several security realms where ICANN staff can share security subject matter expertise.

By lending time and talent in these areas, we expect to earn trust for ICANN among organizations that are not part of the ICANN community and from this trust, encourage them to participate in ICANN’s multi-stakeholder consensus policy development.

The capability building programs are half-, full, or multi-day training program with live demonstrations of techniques and hands-on learning opportunities. The most popular trainings we deliver cover Identifier Systems basics, DNSSEC, investigating abuse of the DNS and domain name registration systems, and secure registry operations. The IS SSR team provides additional training for ccTLD registry operators is provided through contracted training partners and often participates alongside partners. The team also provides basic training and security awareness (e.g., phishing) training for ICANN staff.

Team members publish articles or blog posts regularly on a variety of subjects, across a range of ICANN, trade publication or industry journals, in English and Spanish. Certain subjects are presented as webcasts, also in English or Spanish. The team regularly coordinates these with ICANN’s communications team and assists with social media amplification.

Examples of completed and ongoing capability building programs include:

Identifier Systems Investigations Training for Law Enforcement. This training explains how agents/officers can gather identifier system information associated with criminal activities, how to search or collect content (mail, web, file share, social media) that may serve as evidence of criminal activities. The course is based on actual 24x7 OPSEC activities that a security team member engages in and experiments with to support Threat Awareness and Response.

Phishing Awareness Training for ICANN Staff. A security team member prepared an advanced user phishing recognition and avoidance class that team members will deliver to all ICANN offices in 2016.

“How it works” series. Security team members have rolled out a series of tutorials during the ICANN meetings called “How it Works”. The intention of these tutorials is to increase the technical foundation of knowledge to those who attend ICANN meetings. To date, these sessions have included information regarding the Internet Engineering Task Force (IETF), Internet routing basics, protocols used when operating a registry, and a history and overview of the Root Server Operating System.