ICANN 54
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To constantly improve knowledge about the identifiers ICANN helps coordinate; to disseminate this information to the Internet community; to improve the technical operation of the Internet's system of unique identifiers; and to improve ICANN's technological stature.
The Office of the CTO (OCTO) will:

- Research issues related to the Internet’s system of unique identifiers (domain names, IP addresses/AS numbers, protocol parameters)
- Support improving the Security, Stability, and Resiliency of those identifiers
- Provide internal and external “Internet Technology Resources”
  - Training, data, research, information, consulting, etc.
The Team

- **David Conrad** (CTO)
  - **Roy Arends**: DNS and DNSSEC
  - **Alain Durand**: Network Numbers & IETF
  - **Paul Hoffman**: DNS, crypto, & testing
  - **Ed Lewis**: Registry-related protocols

- **John Crain** (CSSRO)
  - **Carlos Alvarez**: SSR Tech Engagement
  - **Steve Conte**: Training Coordination
  - **Richard Lamb**: DNSSEC Program Manager
  - **Dave Piscitello**: Security & ICT Coordinator

- **Cathy Petersen** (Exec Assistant): Cat Herding
Current Major Projects

- Implementation of the Transition of Stewardship of the IANA Functions (DRC)
- Board Advice Registry (DRC)
- SSR Review Team Recommendation Implementation (DRC)
- DNSSEC Key Signing Key Rollover Plan (Ed)
- Middlebox and DNS Recursive Server Testing (Paul)
- Root Server Data Analytics (Roy)
- DNS Related Forensics (Roy)
- IANA Transition Track 3 (Alain)
- Internet Health Indicators (Alain)
- IPv4 Address Market (Alain)
- “Digital Object” Architecture (Alain)
- DNSSEC Awareness/Adoption/Deployment/Training (Rick)
- Global Security Engagement (John, Dave, Carlos)
- Technology and Security Training (Steve)
Ongoing Activities

- Technical Resource Support for:
  - AOC Reviews
    - ATRT
    - Security, Stability and Resiliency (SSR)
    - Competition, Consumer Choice & Consumer Trust (C^4T)
  - Whois
  - ACs and SOs
  - ICANN’s Board
  - GDD Operations
  - Policy Development

- Also:
  - Providing Data Analytics
  - Supporting RSEP/RSTEP
  - Reviewing all communications for technical accuracy
  - Providing consultative support to other departments
  - Training staff and the community on Internet Identifier Technologies

- Security, Stability, and Resilience Support:
  - DNS training for ccTLD operators, investigators & public safety community
  - Global identifier threat awareness and response (botnet, ddos, other attacks against or that exploit identifier systems)
  - Proof of concept projects
    - Automated tool to collect identifier system abuse information
    - Malicious registrations in new TLDs
  - Security awareness raising publications
  - Technical engagement with policy and governance communities (OECD, IGF, EU, Commonwealth, OAS, CICTE, etc.)
  - Support for public safety community working group
We’re Here to Help

- Internally:
  - Provide support/answers/consulting on the technology ICANN coordinates

- Externally:
  - Same as internal
  - Improve the state of the art for the Internet’s system of unique identifiers
Questions?