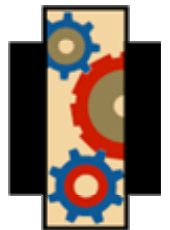


DNS OARC

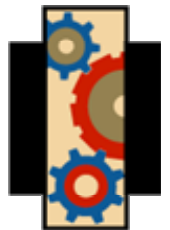
An information sharing and analysis
centre for the global DNS.

QuickTime?and a
TIFF (Uncompressed) decompressor
are needed to see this picture.



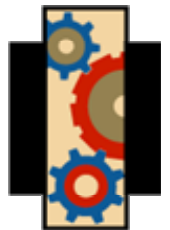
Background

- Information Sharing and Analysis Center
 - Concept originates with US homeland security efforts.
 - Allow industry participants to share potentially proprietary information during times of crisis.
 - ISACs in many different sectors
- *BUT*: ISAC not global enough, needed to expand the concept



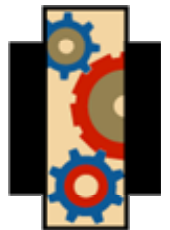
Key Functions

- Incident response
 - Shared, trusted platform for information exchange
- Operational characterization
 - Data collection infrastructure for consistency across time and multiple operators
- Testing
 - Interoperability of implementations
 - Debugging configuration and service options



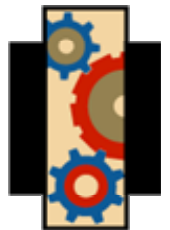
Key Functions (2)

- Analysis
 - Characterize normal functioning
 - Analyse attacks against DNS
 - Analyse backscatter to DNS from other attacks
- Outreach
 - Assist efforts to defend against attacks, malfunctions
 - Improved knowledge for operators everywhere



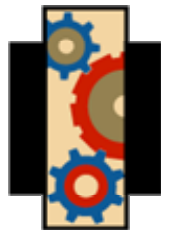
Information Exchange

- Vendors Need to Share Information
 - Information needed to solve problems during times of crisis may be proprietary.
 - Strong, binding membership agreement and trusted, secure information sharing platform insures proper coordination of efforts.
- Operators need to share experience too
- Complements CERTs, law enforcement



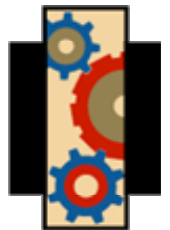
Secretariat for OARC

- OARC provided as public service by the Internet Systems Consortium
 - Not-for-profit corporation.
 - Long-term track record in public DNS operations insures credibility with participants.
- Other ISC public services:
 - BIND software
 - “F” root server.
 - OpenReg Software
 - DNS Analysis and Measurement



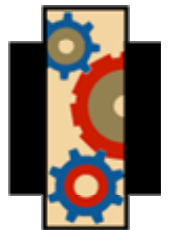
Analysis and Research

- ISC partnering with CAIDA for research and analysis.
- CAIDA well-known for ground-breaking analysis on the global DNS
 - Based at the University of California at San Diego
 - Funded by NSF, ARPA, vendors.
 - Strong credibility with ISPs, root operators, and others involved in operation of the global DNS.
 - Well-known for studies of performance, operation of root servers, DNS queries, measurement.
- ISC and CAIDA have jointly applied for NSF funding for a long-term research program.



Membership

- Membership aimed at 4 classes of institutions:
 - Root and TLD operators.
 - Other large DNS operators (e.g., ecommerce providers).
 - Government institutions with responsibility for DNS operations (e.g., law enforcement).
 - Research and analysis institutions with a strong operational focus.
- Membership agreement
 - Fees based on number of Points of Contact assigned. \$4,200/year for 3 POCs, \$6,800 for 5 POCs.
 - Signed membership agreement required to insure confidentiality requirements are met.



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Questions?

