



NANOG65 DNS Track
Montreal, Quebec, Canada
3-4 October 2015

DNS-OARC Overview

Keith Mitchell

<https://www.dns-oarc.net/>

OARC's Mission Statement

(revised March 2015)

The Domain Name System Operations Analysis and Research Center (DNS-OARC) is a non-profit, membership organization that seeks to improve the security, stability, and understanding of the Internet's DNS infrastructure.

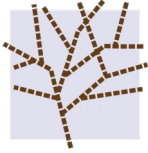
DNS-OARC's mission is to:

- promote and conduct research with operational relevance through data collection and analysis*
- offer useful services and tools*
- build relationships among its community of members*
- facilitate an environment where information can be shared responsibly*
- enable knowledge transfer by organizing open workshops*
- increase public awareness of the DNS's significance*



DNS-OARC

Domain Name System Operations Analysis and Research Center



DNS-OARC

OARC's Value Proposition



OARC is a prestigious library specializing in the DNS. We do our best to index a large collection of data in perpetuity, and because we're a neutral organization we strive to make the library accessible and welcoming to all researchers and operators of the DNS. For our members we offer private meeting rooms (mailing lists) where they can discuss and collaborate on current DNS Operations. At our upper levels you'll find our most precious archives and artifacts, set aside behind glass for safe keeping. We also have a Friends of the Library Program, where an exclusive group of members and guests gather on a semi-annual basis at our workshops to share their ideas, incentivize and encourage research, and catch up on the latest industry news.



OARC's Functions

- Facilitate co-ordination of DNS operations community
- Ongoing data gathering
- Operate community info-sharing resources
- Maintain/host DNS software tools
- Outreach via external and shared meetings



DNS-OARC

Domain Name System Operations Analysis and Research Center

OARC Governance

- Independent legal entity
- Diverse member base
- Financially self-supporting
 - ~\$700k annual revenue ~= expenses
- Self-governing, neutral
- Elected Board reflecting member interests
- Contracted Executive Staff and Secretariat services
- Volunteer workshop Programme Committee
- 501(c)3 non-profit public benefit corporation



DNS-OARC

Domain Name System Operations Analysis and Research Center

2015 Achievements

- Hired Project Development Manager
- Brought over 300TB of new storage capacity online, consolidated >80TB decade+ dataset
- Record 9TB DITL 2015 data gathering completed
- Collating RSSAC-002 data from root operators
- Significant subscription revenue growth
- Clean-up of legacy non-paying inactive participant categories
- Board retreat reviewed progress against Strategic Development Plan
- Non-member workshop registration charging introduced



DNS-OARC

Domain Name System Operations Analysis and Research Center

New Membership Categories

- Replaced Associate/Affiliate/Contributor and Beneficial status with a single non-paying non-voting "Supporter" category
 - Contributions in-kind required at least once per year
 - requires formal commitment which is being tracked
- New entry-level paying member category "Blue"
 - limited to organizations below a certain size, or individuals
 - initially max \$1M revenue or 10 employees
(can apply to groups not whole institution)
 - \$1k/year subscription



DNS-OARC

Domain Name System Operations Analysis and Research Center

Fall 2015 Workshop, Montreal

- 25 Presentations over 2 days at:
 - <https://indico.dns-oarc.net/event/24/>
 - <https://plus.google.com/+DnsoarcNetPlus/>
 - https://www.youtube.com/channel/UCtgW_wIPdA_WBmMKX79JT4g
 - Strong operational/research DNS focus
- 130 attendees
- Thank You CIRA, Nominum, NANOG !



DNS-OARC

Domain Name System Operations Analysis and Research Center

2015-16 OARC Board

- John Crain, ICANN
- *Paul Ebersman, Comcast*
- Ondrej Filip, CZ.NIC
- *Dave Knight, Dyn*
- George Michaelson, APNIC
- *Duane Wessels, Verisign*



DNS-OARC

Domain Name System Operations Analysis and Research Center

DNS-OARC Staff

- President, Secretary (Keith Mitchell)
- Systems Engineer (William Sotomayor)
- Project Development Manager (Dalini Khemlani)
- Membership Coordinator (Sue Graves)
- Events Coordinator (Denesh Bhabuta)
- Software Engineer (*Planned Hire – pending funding*)



DNS-OARC

Domain Name System Operations Analysis and Research Center

OARC Infrastructure

- Functionality, category improvements to member portal
- 10Gb/s network core deployed
- We will need to vacate our existing co-location space at ISC in Redwood City over the coming months ☹
 - requirements/plan being assembled
 - opportunity to diversify our locations
 - we will need help with this !
- Operating SECIR ccTLD security contacts mailing list
- Experimented with stand-alone trust group platform



DNS-OARC

Domain Name System Operations Analysis and Research Center

Future Workshops

- 1-2 April 2016
 - IETF95, Buenos Aires
 - Hosted by NIC.AR
 - Seeking sponsors
- Fall 2016 ?
 - NANOG68, Dallas *or*
 - ICANN57, Puerto Rico
- Spring 2017
 - RIPE74
 - Location *TBC*
- Fall 2017
 - NANOG71 *TBC*

<https://www.dns-oarc.net/files/meeting-sponsor.pdf>



DNS-OARC

Domain Name System Operations Analysis and Research Center

Questions ?



DNS-OARC

Domain Name System Operations Analysis and Research Center