



OARC 35

May 2021

Introduction to DNS-OARC

Keith Mitchell

President

OARC's Mission Statement

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*



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Domain Name System Operations Analysis and Research Center

Recent Achievements

- 180 attendees at OARC35 online workshop
- DITL 2021 data-collection completed successfully
- Major enhancements to *dnsperf* and *dnscap* tools
- Analysis server upgrades and maintenance automation
- Added RPKI origin validation to CheckMyDNS tester
- Survived 2020 with strong year-end financial position
- Operational continuity, and successful online events, through year-of-pandemic



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OARC Technical Resources

- >250TB, 15+ year DNS data catalog
- Core infrastructure in Fremont, California
 - major upgrade to data store in progress
- Open-source DNS tool software
 - <https://www.dns-oarc.net/oarc/software>
- Suite of active DNS test services
- Secondary sites in Ottawa and Stockholm



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OARC Membership Categories

Category	Contacts	Annual
Supporter	1	\$0
Blue	2	\$1.1k
Bronze	3	\$6.5k
Silver	5	\$10k
Gold	8	\$15k
Platinum	10	\$25k
Diamond	18	\$50k

- **Supporter** requires annual in-kind contribution
 - e.g. data, presentations, services
- **Blue** category for small organizations/individuals only



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OARC Governance

- Independent legal entity
- Diverse member base
- Financially self-supporting
 - ~\$950k annual revenue > expenses
- Self-governing, neutral
- Elected Board reflecting Member interests
- Contracted Executive Staff
- Volunteer workshop Programme Committee
- 501(c)3 non-profit public benefit corporation



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2020-21 OARC Board

- Joe Abley, PIR, Director
- Paul Ebersman, *Neustar*, Director
- Jacques Latour, *CIRA*, Treasurer
- Benno Overeinder, *NLnet Labs*, Chairman
- Ondřej Surý, *ISC*, Director
- Jaromír Talíř, *CZ.NIC*, Director



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DNS-OARC Staff Resources

- President, Secretary (*Keith Mitchell*, Indiana) 0.75 FTE
- Systems Engineer (*Matt Pounsett*, Toronto) 0.75 FTE
- Software Engineer (*Jerry Lundström*, Stockholm) 0.75 FTE
- Membership Coordinator (*Sue Graves*, Oregon) 0.5 FTE
- Events Coordinator (*Denesh Bhabuta*, London) 0.5 FTE
- Book-Keeper (*Pam Stone*, California) 0.1 FTE

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



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2021 OARC Programme Committee

- Pallavi Aras, *Salesforce*
- Manu Bretelle, *Facebook*
- Brett Carr, *Nominet*
- Willem Toorop, *NLnet Labs*
- Jan Včelák, *NS1 (Chair)*
- Ulrich Wisser, *Swedish Internet Foundation*
- Jake Zack, *CIRA*
- Jaromír Talíř (OARC Board Liaison)



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Appreciation

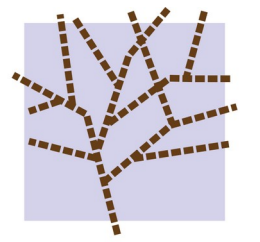
- Shumon Huque
 - 3 years on OARC PC and as committee Chair
 - 2017 to 2020
 - *"It was a great privilege to be part of the Program Committee. I look forward to continue being involved in DNS-OARC"*
- George Michaelson
 - 6 years on OARC Board and as company Chair
 - Oct 2014 to Oct 2020



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Appreciation



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Asia-Pacific

Next workshops

- Plan for Q2-Q3 2021:
 - No physical workshops
 - Short *OARConline* 35a event *TBC* in August
- *Provisional* 2021 Q4 plan:
 - Hybrid AGM in October
 - Hybrid OARC36 co-located with other event in November
- OARC37: Austin TX, Feb 2022



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Why Become an OARC Member ?

- Access to and participation in the world's premier community of DNS technical experts
- Influence development of open tools and services to support your infrastructure operations
- Ability to share and analyze a unique dataset perspective into global DNS operations
- Use of community co-ordination resources to respond to incidents and threats
- Support a trusted neutral party free of vested interests in the DNS space



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OARC's Value Proposition

Member testimonials:

"OARC is the only organization of its kind, dedicated to DNS operations and research. Given my company's deep involvement with DNS and my personal interest, I simply have to be a member and attend the workshops, which have consistently high-quality content."

"OARC is a unique venue that brings together DNS vendors, operators of DNS services and researchers - the workshops provide a unique and valuable insight into the current state of the art of the DNS."

"DNS OARC provides the invaluable mingling of DNS operators, developers, researchers, to communicate, collaborate, and share data via workshops, mail lists, and shared computing resources. Without this association I would not be aware of the current problems facing the DNS and Internet community nor be a part of their solutions."

"Of all the work-related conferences I attend, @dnsoarc is reliably the one with the fewest uninteresting bits. Approaching zero."



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