

OARC 26, Madrid, May 2017

HOSTED BY

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What is Where

- WiFi **SSID**s + *PSK*s:
 - Inside Gran Madrid Room:
 - ICANN-Meeting *Madrid2017*
 - Outside Gran Madrid Room:
 - ICANN-Madrid /CANN2017
- Thank You to ICANN for hosting us!
 - Co-location with GDD/RoW/Symposium is experiment
 - Hope travel from RIPE74 was not too arduous
 - Please let us know what you think



What is Where

- Fire alarm procedure
- Dietary requirements
- PGP signing session (needs volunteer!)
 - Monday lunch break at 1pm
 - Keys to <pgpsign@dns-oarc.net>
- Badge lanyards:
 - Staff, Board, PC
 - First timers
 - All others
 - Please return lanyards to desk when you leave



We are Webcasting

- Google Hangouts/YouTube:
 - https://www.youtube.com/c/DnsoarcNetPlus
- Jabber room:
 - xmpp://dns-operations.dns-oarc.net
- Please set your beeping devices to silent
- Please queue at microphone stand, and identify yourself & affiliation before asking a question
- Social media hashtag #OARC26

Speakers

- Please see me if:
 - You didn't upload your slides yet
 - You have special AV requirements
- Good timekeeping helps ©
- Timeslots include Q&A
 - countdown is to end of slides
- Devices → → mode
- We appreciate your contribution!

DNS-OARC Status Update

Keith Mitchell OARC26 May 2017

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:

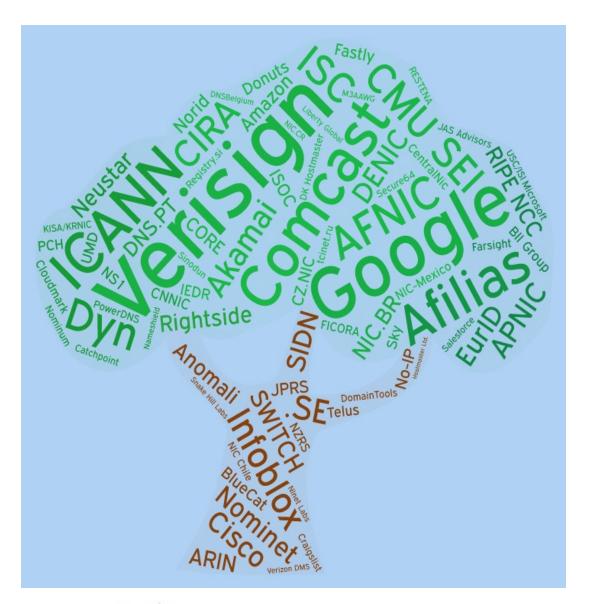
- promote and conduct research with operational relevance through data collection and analysis
- offer useful services and tools
- build relationships among its community of members
- facilitate an environment where information can be shared responsibly
- enable knowledge transfer by organizing open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



Recent Achievements

- Strategic Board and Staff Retreat in Feb 2017
- Diverse resilient site in Ottawa, Canada locations
- Record >10TB DITL 2017 data gathering completed
- Special DITL for Root ZSK size increase
- Comcast Development Grant funding for and release of drool DNS Replay Tool
- Taking over ownership of DNSCAP and PacketQ tools
- Collating RSSAC-002 data from all root operators
- Physical office re-location California to Ohio
 - now fully autonomous from ISC





OARC's Members

Welcome New OARC Members!

(since October 2016)

<u>Participant</u> <u>Level</u>

ARIU Supporter

BYU Supporter

Telecom Bretange Supporter

CENTR Supporter (reciprocal)

PCH Blue

Snake Hill Labs Bronze (in kind)

Nameshield Bronze

More New OARC Members!

(since October 2016)

<u>Participant</u> <u>Level</u>

ISOC Bronze

NS1 Bronze

Craigslist Bronze

DNS Belgium Bronze

Fastly Bronze

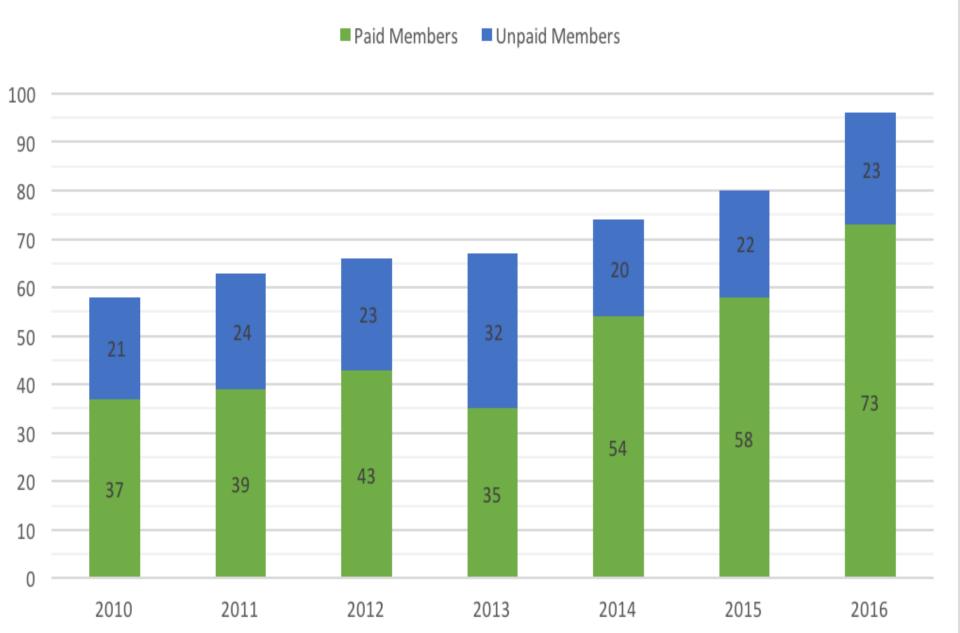
DomainTools Bronze

Amazon Bronze

Thank you Upgraded Members!

- Platinum to Diamond (new level *)
 - Verisign
- Bronze to Silver
 - SWITCH
- Supporter to Blue
 - University of Maryland

Yearly OARC Membership 2010-2016



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
- Volunteer workshop Programme Committee
- 501(c)3 non-profit public benefit corporation



2016-7 OARC Board

- Paul Ebersman, Comcast, Chairman
- Jacques Latour, CIRA, Director
- Liam Hynes, *Oracle*, Director
- George Michaelson, APNIC, Director
- Ondrej Sury, CZ.NIC, Co-Chair
- Duane Wessels, Verisign, Treasurer

Recent Board Changes

- OARC Board positions belong to Member organizations, not the elected individuals
- This has lately led to a lot of composition changes due to people switching jobs mid-term:
 - e.g. Comcast, Dyn, Afilias seats in past 2 years
- Consequences:
 - admin overhead of switching
 - lack of continuity within Board
- More common practice within industry is Board appointments belong to persons not organizations
 - do we want to consider this for OARC?



2017 OARC Programme Committee

- Piet Barber, Verisign
- Ray Bellis, ISC (Chair)
- Robert Edmonds, Fastly
- Mauricio Vergara Ereche, ICANN
- Geoff Huston, APNIC
- Shane Kerr, Oracle
- Marten Wullink, SIDN
- Jacques Latour (OARC Board Liaison)

DNS-OARC Staff Resources

- President, Secretary (Keith Mitchell, Ohio) 0.75 FTE
- Systems Engineer (William Sotomayor, Ontario) 1.0 FTE
- Software Engineer (Jerry Lundström, Stockholm) 1.0 FTE
- Membership Coordinator (Sue Graves, Oregon) 0.5 FTE
- Events Coordinator (Denesh Bhabuta, London) 0.25 FTE
- Book-Keeper (Pam Stone, California) 0.1 FTE

OARC Membership Categories

Category	Contacts	Annual
Supporter	1	\$0
Blue	2	\$1k
Bronze	3	\$6k
Silver	5	\$9½k
Gold	8	\$14k
Platinum	10	\$25k
Diamond	18	\$50k

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



2017 Retreat

- Do these roughly every 2 years to review strategy
 - have been working from 2013 strategic plan
 - largely achieved objectives in it
- 31st Jan to 2nd Feb 2017, Reston, VA
- Thank you Verisign for hosting & facilitation
- All of Staff+Board overlapping over 3 days

OARC Strategy 2017→

- OARC's current strategy is successful
 - needs enhanced rather than overhauled
- No longer run OARC at deficit to achieve growth
- Adjust Membership and Workshop fees to changing market conditions
- Consult and Engage Members
- Develop more structured methodology for workshop selection
- Leverage Board/Officer resources including via working groups
- Data Privacy needs further work
- Role in incident/operational security is as facilitator rather than actor
- Prioritize opportunities by (1) Revenue (2) Reputation (3) Relevance



DNS-OARC Financials

- Draft 2016 Financial Statements once again indicate audited with clean bill of health
- 2016 finished with \$100k planned deficit
 - on-paper only, actual \$10k cash deficit
- Budget for 2017 targets break-even with no further deficits
- 2017 YTD figures are for Jan-Apr
- Cash reserves remain strong >\$250k

Financial Overview

	2015	2016	2017 YTD	2017 Budget
Income	\$535k	\$628k	\$181k	\$739k
Expenses	\$612k	\$727k	\$182k	\$707k
Assets	\$378k	\$360k		
Cash	\$303k	\$293k	\$256k	\$324k

Income Summary

	2015	2016	2017 YTD	2017 Budget
Member fees	\$456k	\$506k	\$181k	\$623k
Donations	\$10k	\$25k	\$0k	\$0k
Workshop Sponsorship, fees	\$69k	\$82k	\$0k	\$80k
Project Funding	\$0k	\$15k	\$0k	\$36k
TOTAL	\$535k	\$628k	\$181k	\$739k



Expenditure Summary

	2015	2016	2017 YTD	2017 Budget
Consultants/ Professional	\$385k	\$461k	\$142k	\$483k
Capital Equipment	\$63k	\$40k	\$5k	\$26k
Co-location	\$12k	\$21k	\$11k	\$26k
Workshops	\$76k	\$88k	\$0k	\$74k
Other	\$76k	\$117k	\$24k	\$124k
TOTAL	\$612k	\$727k	\$182k	\$707k

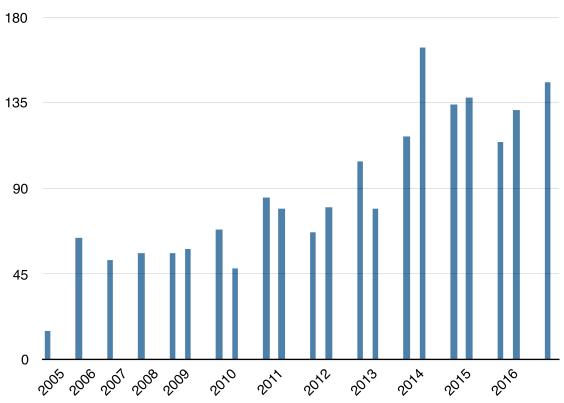


OARC Workshops

- 2 workshops per year
- $1\frac{1}{2}$ -2 days long
- Co-locate with RIPE/NANOG/ICANN/IETF
 - this has been challenging for 2017
 - have developed methodology for future site selection
 - please see survey to try and better handle on co-location benefits vs challenges
- Always seeking sponsors!
 - https://www.dns-oarc.net/files/meeting-sponsor.pdf

Workshop Attendance

DNS-OARC Per Meeting Attendee Growth



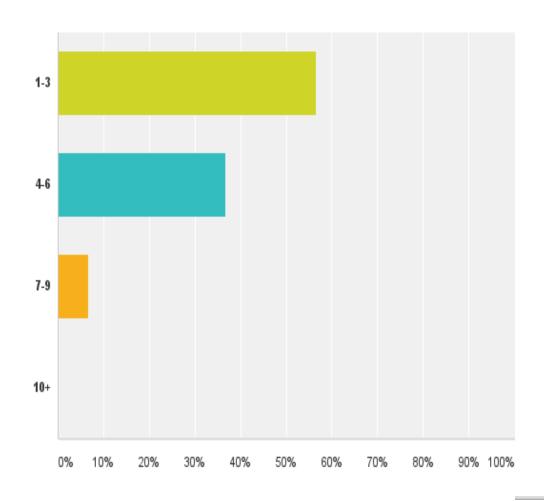


Workshop Co-location Challenges

- Co-locating with other major Internet meetings is getting harder and more expensive
 - taking longer to confirm dates
- Saves attendee time and costs, but demands more OARC resources to plan and host
- Retreat output was to try and quantify costs vs benefits

Q1: How many days per year of your time does co-location of OARC workshops with other Internet events save you, compared with if OARC workshops were stand-alone?

Answered: 30 Skipped: 0



Quantifying Co-location Cost/Benefits

- From survey:
 - Average co-location saving per attendee per workshop:
 - \$2,673
 - Registration fee to gain this saving
 - 77% of attendees willing to pay up to \$300
 - 20% of attendees willing to pay up to \$450

Workshop registration fees

- Actual hard costs of workshops are ~\$400/attendee
- Assuming current levels of sponsorship:
 - No charge for Members, \$400 for others: 60%
 - \$200 charge for everyone:
 23%
- For less sponsorship:
 - \$400 charge for everyone: 17%

Other Workshop Survey Take-aways

- Desire for 3rd workshop/year highly dependent on specifics
- Most interest in adding workshops in AP and LAC regions
- Potentially problematic destinations:
 - USA, Russia, Middle East, Southern hemisphere
 - distance, health, immigration, safety surveillance
- Strong interest (80%) in having additional content via posters at workshops

Future Workshops

- OARC27
 - 29-30 September2017
 - NANOG71,
 San Jose
 - keeping non-US contingency venue in mind

- OARC28
 - Likely LAC or AP region, TBC
- OARC29
 - Co-located with RIPE76 and CENTR Tech

2017 Plans

- Implement retreat strategy
 - survey Members on data privacy attitudes
 - establish Data Privacy sub-committee
- Upgrade analysis capacity/cluster
- Consolidate/re-locate Canadian site(s)
- Further physical office re-location Ohio->Indiana
- Special DITLs for root KSK rollover
- Prepare for growth to \$1M revenue by 2019

Questions?





DNS-OARC

Presented to

Sebastian Castro

In Grateful Appreciation for your Outstanding Service and Leadership to the DNS-OARC Community Programme Committee Jan 2014 - Dec 2016

Lightning Talks & Survey

- Room at end-Monday for up to 4 x 10-15 minute late-breaking talks
- If you have something to present, please e-mail abstract for review by PC to <submissions@dnsoarc.net> by 16:00 CEST today
- https://www.surveymonkey.com/r/oarc26-day-1



Social Event

- Sunday 14th evening at 19:00 CEST
 - Taberna del Chato
 35 Calle de la Cruz
 28012 Madrid
- Metro:
 - Line 10 from Cuzco to Tribunal (5 stops)
 change to Line 1 and disembark at Sol (2 stops)
 venue is a 5 minutes walk from Sol station
- Badges + sticker required
 - Get a sticker by RSVPing on Eventbrite
 - https://oarc26-social.eventbrite.com/



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

