DNS-OARC Status, Survey and Strategic Plan

Keith Mitchell President Spring Workshop Dublin, May 2013



DNS-OARC Current Status



OARC's Functions

- Facilitate co-ordination of DNS operations community
- Ongoing data gathering
- Operate community info-sharing resources
 - Mailing lists, jabber, website, trust vetting
- Maintain/host DNS software tools
- Outreach via external and shared meetings



OARC Governance Achievements

- Independent legal entity
- Diverse member base
 - direct participation agreements
- Financially self-supporting
 - no cross-subsidies
 - own bank accounts
 - >\$300k annual revenue ~= expenses
- Self-governing, neutral
- Board reflecting member interests
- 501(c)3 non-profit public benefit corporation



DNS-OARC Staff Resources

- Part-time President (Keith Mitchell)
 - increased from 0.5 to 0.6 FTE since Oct
- Systems Engineer (William Sotomayor)
 - started March 2013, 0.8 FTE
- Under contract from ISC:
 - Secretariat Director (Suzanne Woolf)
 - Finance/Admin functions (Pam Stone)
 - Infrastructure services
- The effort you are seeing since last meeting is about 25 person-weeks' worth – please bear with us if progress seems slow...



OARC Board

- John Crain, ICANN, RSAC Director
- Ondrej Filip, CZ.NIC, Chairman
- Peter Koch, DENIC, Director
- Matt Pounsett, Afilias, Treasurer
- Antoin Verschuren, SIDN, Director
- Suzanne Woolf, ISC, Secretariat Director



Financial Overview

	2012	2013 Budget	2013 YTD (to April)
Income	\$267k	\$328k	\$107k
Expenses	\$176k	\$300k	\$68k
Assets	\$209k		\$299k
Cash	\$165k	\$222k	\$223k



OARC Development Objectives

- Oct 2013 Board determined to "re-boot" the organisation
- Governance changes to make better use of the available resources:
 - Dec 12/Jan 13 migrated President & Secretariat roles from Secretariat Director to Executive Director
- Conduct a member survey to get better data on how OARC's Members perceived and used the organisation, and its role and future:
 - Jan/Feb 13: https://www.dns-oarc.net/files/workshop-201305/Strategy-2013_report.pdf
- Conduct a Board strategic retreat to review input from the survey and Board members to determine OARC's position and development options
 - Feb 20-21, at SIDN, Arnhem, Netherlands
- Publish document, to report the survey and retreat results back to the members, and define a plan for OARC's future development:
 - May: https://www.dns-oarc.net/files/workshop-201305/Survey-results-2013_03_20.pdf

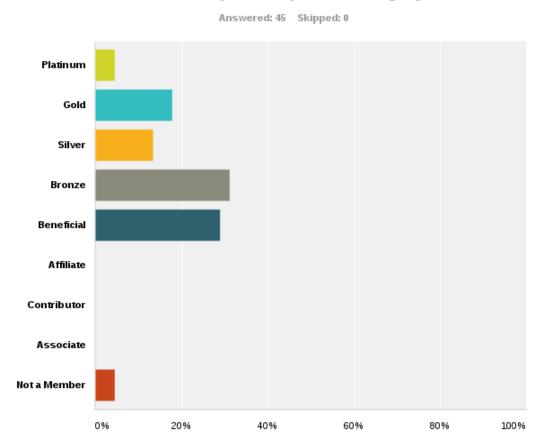


OARC Member Survey Findings



Survey Participation

What is your OARC Membership/Participation Category ?





Domain Name System Operations Analysis and Research Center

OARC Functions and Services

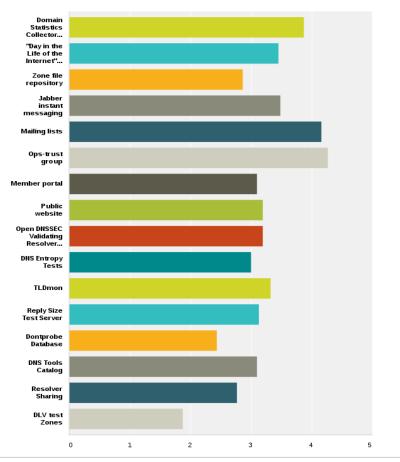
Please rank the following OARC functions in terms of importance to you: (1=most, 7=least)

Answered: 34 Skipped: 11

Data gathering & sharing Collaboration Workshops Mailing lists Incident handling Analysis & research Providing tools & services 0% 20% 40% 60% 80% 100% 2 4 1 5

Please rate the following OARC services in terms of importance to you:

Answered: 31 Skipped: 14





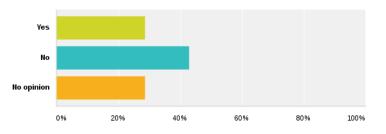
"Special" Membership Categories

Do you think non-paying "Beneficial" members add value to OARC ?



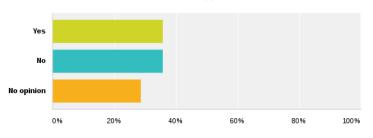
Do you think the Root Operators should have special status within OARC ?

Answered: 28 Skipped: 17



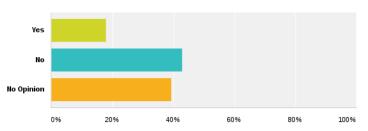
Do you think non-paying non-member Participants add value to OARC ?

Answered: 28 Skipped: 17



Do you think that the OARC Secretariat Provider should have a Board seat ?

Answered: 28 Skipped: 17





OARC Funding and Activities

- Around a dozen members each indicated they would potentially pay more to fund OARC to do new services and development projects
- Not so much interest in just increasing fees
- OARC needs to be better at what it is already doing (e.g. DSC, website/portal) before taking on new activities
- Any role in "Incident Handling" should be limited and well-defined if done at all



Workshops and Meetings

- These should be:
 - Twice a year
 - Of 2 days duration
 - Combined with other Internet meetings (RIPE, IETF preferred; also NANOG, ICANN)
- Aiming for Q4 2013 workshop and AGM to be co-located with NANOG59 in Arizona



OARC Member Satisfaction

- 36% *"Extremely Likely"* to recommend OARC to others
 - *"Already convinced" of the benefits of OARC*
 - *"More outreach to let people know it exists"*
 - *"Listen to your members and engage with them"*
 - *"Hoping it will get some new momentum"*
- Overall satisfaction rating 6.54/10
 - "satisfactory but definite room for improvement"



OARC Board Retreat



Board Retreat Objectives

- 1. A 3-5 year development plan set out in this report, for Member review
- 2. Some short-term achievables to demonstrate tangible progress
- 3. Determining sources of OARC funding, income and resource
- 4. Deciding whether OARC's best future path is one of steady state or growth, and if the latter, how
- 5. Better defining OARC's role
- 6. Ensuring Member engagement and outreach
- 7. Improve the output and visibility of workshops and meetings



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 build relationships among its community of members and facilitate an environment where information can be shared confidentially; to enable knowledge transfer by organizing workshops; to promote research with operational relevance through data collection and analysis; to increase awareness of the DNS's significance; and to offer useful, publicly available tools and services."

• We like it and want to keep it ③



OARC Development Strategy



The "Bootstrap" Issue

- ~1.5 FTEs total lets you run an organisation, or grow and develop it, but **not** both at same time
- Previous staff have struggled with this, and we remain at risk of further instability while this situation continues
- Ideally we need 4-5 FTEs for sustainable autonomy
- Organic growth (e.g. +10% revenue per year) is not sufficient to escape this
- Good news is large-scale storage hardware CapEx is a lot cheaper than it used to be
- We need to find a new path to sustainability...



Our "Ideal" OARC: Expenses

- Around \$400k/year running costs:
 - Infrastructure
 - Workshops, travel
 - Admin
 - Overheads
- Around \$600k/year staff costs:
 - Engineering: 2 FTE
 - Project Management: 1 FTE
 - Outreach/sales/marketing: 1 FTE
 - Admin/Finance: 1 FTE
 - Leadership: 1 FTE



Our "Ideal" OARC: Resource Growth

- Increase outreach to grow revenue by +30% for each of 3 years
 - reduce proportion of non-paying members
- Member funding of new projects/services
- Member in-kind donation of staff resources
- Meeting sponsorship
- Use some of >\$100k accumulated reserves



Our "Ideal" OARC: Funding

Subscriptions	\$650-700k
New Projects/Services	\$200-300k
In-kind donations	\$150k
Sponsorship	\$50k
Reserves (year 1 only)	\$0k-\$100k
TOTAL	\$1.05M-\$1.3M



OARC Infrastructure Re-Development

- Too much legacy hardware running too-old software with not enough TLC for too long S
- We need to re-build most capability from scratch on modern platforms and migrate
- This will take time and patience, but we now have cash and manpower to do it
 - see William's presentation.... ☺



OARC Infrastructure Priority Goals

- Commissioning of new storage server
- Replacement of obsolescent general-purpose servers
- Complete re-implementation of OARC's website and member portal
- Automation of OARC member administration workflow
- Better support of workshops
 - via "Indico" conference management platform



Governance Proposals

- 1. Splitting the concepts of *Member* and *Participant* into separate agreements
- 2. Normalising the "Special" Board seats
 - convert Secretariat and Root-Ops seats to At-large
- 3. Ensuring greater Board candidate diversity
- 4. Moving the AGM date from June to Q3/Q4
- 5. Formally remove voting rights for Beneficial members
- 6. Rationalise multiple non-paying *Participant* categories into just one
- 7. Review of annual budget by members during Q1/2 of each year.



New Projects and Services

- Focus on possibilities which give most benefit to OARC's members and address its sustainability needs
 - seek new funding from members and other grant sources
- Next-Generation Domain Statistics Collector ("DSCng")
 - Re-start and implement development plan at:
 - https://www.dns-oarc.net/files/dsc-plan-201102.pdf
- DNS Benchmarking
 - needs lightweight project management framework
- Progress other projects within existing capabilities:
 - e.g. DNS Looking Glass
 - more frequent DITL collection



Next Steps

1.Progress short-term achievables, including:

- Support for the DNS looking Glass Project
- Deployment of a conference management platform for enhanced workshop support (Done !)
- Adding and refreshing some straightforward changes to website content

2.Seek member consensus on the contents of report as a way forward

- 3.Develop a detailed business plan to achieve the "Ideal OARC" resource and revenue targets on a 2-3 year timescale
- 4. Create a framework for development Project management and funding, while using it to kick-start the DSCng and Benchmarking projects
- 5.Implement the changes to meetings lead-time, location, frequency and duration as per survey results
- 6.Conduct improved member outreach, while cleaning up the contractual relationships with non-paying members
- 7.Improve relationships with Researcher community, including potentially setting up a Scientific Committee



Contacting OARC

- Member Portal:
 - https://portal.dns-oarc.net/
- <admin@dns-oarc.net> +1 650 423 1344
 - <keith@dns-oarc.net> +1 650 423 1348
 - <wfms@dns-oarc.net> +1 650 423 1447

