

Network Operations Groups around the World

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RIPE NCC Regional Meeting

Moscow

29 Sept - 1 Oct 2010



Internet Operations Groups

- Where network engineers and operators meet their colleagues
 - Peering & Business relationships
 - Industry relationship
 - Technology discussions
 - Operational best practices
 - Compare experiences (supplier, operational,...)
 - Purchasing decisions influenced
 - Networking software features worked out
 - Employment opportunities
 - **Keeping the Internet Working**



AfNOG

- African Ops Conference
 - Established in 2000
 - Still centred around Workshops, based on the recently defunct INET Workshops organised by ISOC
 - Co-located with one of two AfriNIC meetings
- Meets once per year in April/May
- Typical attendance around 100
- Moves around Africa
 - 2010 was in Kigali, Rwanda
 - 2011 will be in Dar es Salaam, Tanzania
 - 2012 will be in Banjul, Gambia
 - AfNOG goal is to visit every country on the continent, bringing training, leaving legacy of local operations community



AfNOG (2)

- Programme
 - 5 days of workshops
 - 4 parallel workshops including System Administration, Scalable Services and Scalable Infrastructure
 - Expanded programme planned for 2011 onwards
 - 2 days of tutorials
 - 3 parallel tutorials, usually more detailed content than the workshops
 - 1 day of conference
- Website:
 - www.afnog.org



APRICOT

- Asia and Pacific Operations Conference
 - Established in 1996
 - Co-located with one of two APNIC meetings
- Held annually on the last week of February
- Typical attendance around 700
- Moves around AP region
 - 2010 was in Kuala Lumpur (734 participants, 53 countries)



APRICOT (2)

- Programme
 - 5 days of technical hands-on workshops
 - 5 (or more) parallel workshops
 - 4 days of tutorials and conference
 - Plenary sessions
 - Parallel streams (maximum of 4)
 - BoFs
 - AP organisations hold side meetings
 - 1 day APNIC Member Meeting
- Committees
 - Management committee organises the conference
 - Programme committee organises tutorial and plenary content
- Website:
 - www.apricot.net



APRICOT (3)

- APRICOT 2011
 - Hong Kong, 15th – 25th February
 - Will be held jointly with APAN 31
 - First joint conference of commercial and R&E network operations groups
- APRICOT 2012
 - New Delhi, 22nd February – 3rd March
 - SANOG 19 will be part of APRICOT 2012
- Forward planning is vital
 - Work starts 9 months prior to the event
 - Future host MUST participate on organisation committee and organisation activities of the prior event



MENOG

- Middle East Network Operators Group
 - First meeting in April 2007
 - (Following RIPE NCC regional meeting in Bahrain in November 2006)
- Meets twice per year (April and Oct/Nov)
- MENOG 6 was in Riyadh in April 2010
 - Two 3 day workshops
 - IPv4/v6 Routing & Robust DNS Infrastructure
 - 140 attendees from 19 countries
- MENOG 7 will be in Istanbul in October 2010
 - Three 5 day workshops (Routing, Network Management, Network Security)



MENOG (2)

- Programme
 - 2 days plenary conference
 - 1 day of tutorials
 - 5 days of workshop (as from Oct 2010)
 - Incorporates the RIPE NCC Middle East Regional Meeting
- Still early days, building the “brand” and awareness across the region
- Coordination team involving founders
- Programme committee works on the plenary & tutorial content
- Website:
 - www.menog.net

The title "NANOG" is written in a large, blue, sans-serif font. To the left of the text is a graphic consisting of overlapping colored squares (yellow, red, blue) and a black crosshair.

NANOG

- North American Network Operations Group
 - Evolved from NSFNET 'Regional Techs' meeting in 1994
 - Attracts participants from Europe and Asia too
- Three meetings per year in North America
 - One meeting held jointly with ARIN
 - NANOG 49
 - San Francisco, 13 – 16 June 2010
 - NANOG 50 (preceeds ARIN 26)
 - Atlanta, 3 – 6 October 2010
 - NANOG 51
 - Miami, 30 January – 2 February 2011

A decorative graphic on the left side of the slide, consisting of overlapping colored squares (yellow, red, blue) and a black crosshair.

NANOG (2)

- Three day event with well established formula:
 - Plenary sessions
 - Panel discussions
 - BoFs (Peering & Security are long running events)
 - Tutorials
- Around 500 participants and depends on:
 - Location & Forward Planning
 - Programme quality and its early publication
- Committees:
 - Steering Committee provides general direction
 - Programme Committee builds programme for entire event
- Website
 - www.nanog.org

The logo graphic consists of a vertical black line intersecting a horizontal black line. To the left of the intersection, there are three overlapping squares: a yellow one at the top, a red one to the left, and a blue one at the bottom. The text 'PacNOG' is written in a blue, sans-serif font to the right of the vertical line.

PacNOG

- South Pacific Ops Group
 - Launched after APNIC 18 in 2004 in Fiji
 - Covers the Pacific Islands
- Meets twice a year as from 2009:
 - PacNOG 7: Was in American Samoa at end of June 2010
 - PacNOG 8: Will be in Federated States of Micronesia in November 2010 (celebrates arrival of fibre in FSM)
 - Planning for 2011 is well under way
- Organised by a Coordination Committee including the founders and APNIC regional representative
- Financial support from ISOC, NSRC, PITA & local host



PacNOG (2)

- Programme
 - Very much focused on training and education
 - 1 day of conference including country activity reports
 - 5 days of workshops
 - Usually a mixture of routing, peering & IXPs, VoIP, LAMP, service infrastructure, services, and security
- Website:
 - www.pacnog.org



SANOG

- South Asia Ops Group
 - Established in 2003, focusing on South Asia
 - Covers countries between Bangladesh and Afghanistan
- Two events per year (January and July)
- Typical attendance now 250
- Moves around South Asia
 - SANOG 16 was in July 2010 in Paro, Bhutan
 - SANOG 17 will be in January 2011 in Colombo
 - SANOG 18 will be in August 2011 in Pokhara, Nepal
- Yet to visit Maldives and Afghanistan



SANOG (2)

- Programme
 - 5 days of technical hands-on workshops
 - 3 parallel workshops (similar to APRICOT content)
 - 2 days of tutorials
 - 3 parallel tutorials
 - 1.5 days of conference
 - Includes APNIC specific content
- Organising and Programme committee put the event together with localhost
 - SANOG is well known across South Asia
- Website:
 - www.sanog.org



New NOGs

- NOG creation is a recent phenomenon
 - Local Language, Needs, Culture
- SANOG and NZNOG are common models
 - Avoid temptation to introduce bureaucracy
 - Primary purpose to ensure network engineers & operators have opportunity to meet and interact
- Potential new Regional NOGs:
 - Caribbean
 - CaribNOG was launched in August 2010
 - www.caribnog.org
 - Latin America
 - LacNOG has started under the auspices of LACNIC



Country NOGs

- New Country NOGs are going from strength to strength
- Examples:
 - PLNORG, DENORG, AusNORG
- Joining more established NOGs such as:
 - NZNORG, JANORG, UKNOF, SwiNORG



NZNOG

- New Zealand Operators Group
- Meets once per year
- Programme
 - 1 day of Tutorials
 - 2 days of Conference
 - NZNOG 2010 held 3 day workshops (for first time)
- Around 120 participants (!)
- Fairly informal structure
 - Led by “guides”
 - Has a board of trustees (legal requirement to hold “the money”)
- Website:
 - www.nznog.org



JANOG

- Japan Network Operators Group
- Running since 1997
- Meets twice per year
- In Japanese
- 300-400 participants (depending on location)
- 2 days Conference
 - Wide range of topics
- Website:
 - www.janog.gr.jp



More information

- Other NOGs:
 - www.bugest.net/nogs.html
- Meeting planning:
 - “Network Education and Training Calendar of Events” maintained by the NSRC
 - ws.edu.isoc.org/calendar
 - **Desirable to avoid conflicts and overlaps**

Questions?