Network Operations Groups

Philip Smith

SANOG 14
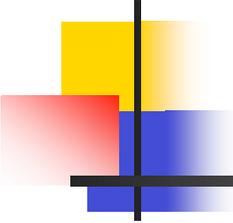
15 - 23 July 2009

Chennai

Internet Operations Groups

Internet Operations Groups
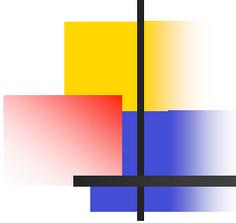
- Where network engineers and operators meet their colleagues
  - Peering & Business relationships
  - Industry relationship
  - Technology discussions
  - Operational best practices
  - Compare experiences (supplier, operational,…)
  - Purchasing decisions influenced
  - Routing software feature requests worked out
  - Jobs fair
  - Keeping the Internet Working

NANOG

- **North American Network Operations Group**
  - Evolved from NSFNET 'Regional Techs' meeting in 1994
  - Attracts participants from Europe and Asia too
- **Three meetings a year**
  - October meeting co-located with ARIN
  - NANOG 47 - October 2009, Detroit MI
  - NANOG 48 - February 2010, Austin TX
- **Around 500 attendees**
  - Depends on location
  - Depends on early publication of programme

NANOG (2)

- Programme
  - (two days of plenary, one day of tutorial)
  - Plenary sessions
  - Panel discussions
  - BoFs (Peering & Security are long running events)
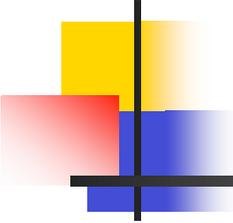 - Tutorials
- Website:
  - www.nanog.org

APRICOT

- Asia and Pacific Operations Conference
  - Established in 1996
  - Co-located with one APNIC meeting
- Held annually on the last week of February
- Typical attendance around 600
- Moves around AP region
  - 2010 will be in Kuala Lumpur
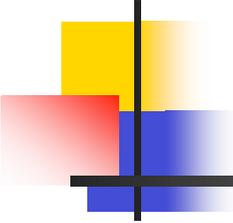 - 2011 will be in Hong Kong

APRICOT (2)

- Programme
  - 5 days of workshops
    - 5 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
- Website:
  - www.apricot.net

SANOG

- **South Asia Ops Group**
  - Established in 2003
- **Bangladesh to Afghanistan**
- **Two events per year (January and July)**
- **Typical attendance now 250**
- **Moves around South Asia**
  - SANOG 14 in July 2009 in Chennai
  - SANOG 15 in January 2010 in Colombo
- **Yet to visit Maldives and Afghanistan**

SANOG (2)

- Programme
  - 5 days of workshops
    - 3 parallel workshops
  - 2 days of tutorials
    - 3 parallel tutorials
  - 1 to 2 days of conference
    - Includes APNIC specific content
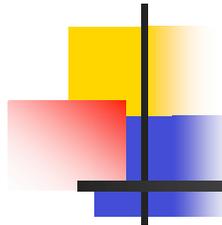- Website:
  - www.sanog.org

AfNOG

- African Ops Conference
  - Established in 2000
  - Still centred around Workshops, based on the now defunct INET Workshops organised by ISOC
  - Co-located with one of two AfriNIC meetings
- Meets once per year in April/May
- Typical attendance around 120
- Moves around Africa
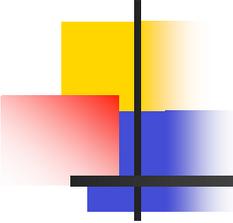 - 2009 was in Cairo

AfNOG (2)

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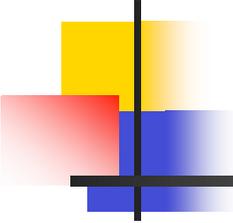 - www.afnog.org

PacNOG

- **South Pacific Ops Group**
- **Launched after APNIC 18 in 2004**
- **Meets twice a year as from 2009:**
  - PacNOG 5: French Polynesia in June
    - Around 50 participants
  - PacNOG 6: Fiji in November
- **Coordination & Programme Committee**
- **Financial support from ISOC, NSRC, PITA & local host**
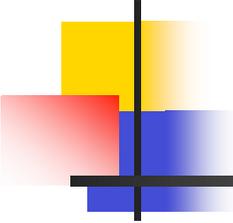
PacNOG (2)

- **Programme**
  - 1 day of conference including activity country reports
  - 5 days of workshops
    - Usually a mixture of routing, service infrastructure, services, and security
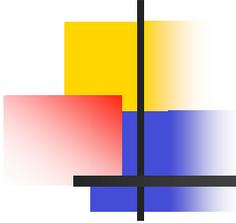- **Website:**
  - www.pacnog.org

MENOG

- **Middle East Network Operators Group**
  - Launched in April 2007
  - (Following RIPE NCC regional meeting in Bahrain in November 2006)
- **Meets twice per year (April and Oct/Nov)**
  - MENOG 4 was in Bahrain in April 2009
    - Around 100 participants
    - 3 day workshop for the first time!
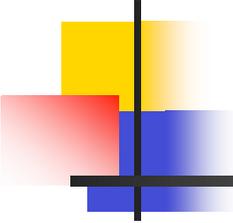 - MENOG 5 will be in Lebanon in October 2009

MENOG (2)

- Programme
  - 2 days plenary conference
  - 1/2 day tutorials
  - 3 days of workshop (as from Apr 2009)
- Still very early days, with future expansion being planned:
  - Decision makers meeting
- Website:
  - www.menog.net
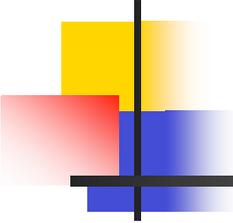
RIPE Meetings

- There is no European NOG
- RIPE is closest Europe gets to an Ops Forum
  - Organised by RIPE NCC
- Two per year
  - May & October
  - Next RIPE meeting in Amsterdam in May
  - All conference, partly plenary, partly RIPE WG meetings
  - Now includes RIPE NCC member meeting (closed to RIPE NCC members only)
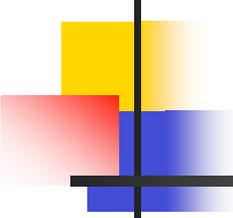- Around 300 participants, depending on location

Country NOGs

- Many country NOGs
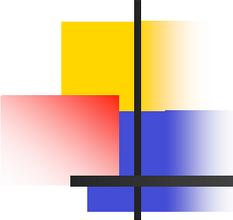- Two deserve special mention:
  - NZNOG
  - JANOG

NZNOG

- New Zealand Operators Group
- Meets once per year
- Programme
  - 1 day of Tutorials
  - 2 days of Conference
- Around 120 participants (!)
- Fairly informal structure, with "guides"
- Website:
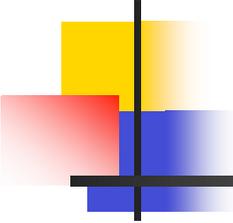 - www.nznog.org

JANOG

- Japan Network Operators Group
- Running since 1997
- Meets twice per year
- In Japanese
- 300-400 participants
- 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
  - **Intention is to avoid conflicts and overlaps**

New NOGs

- **NOG creation is a recent phenomenon**
  - Local Language
  - Local Needs
  - Local Culture

- **SANOG and NZNOG are common models**
  - Avoid temptation to introduce bureaucracy

- **Potential new Regionals:**
  - Central Asia
  - Caribbean
    - Caribbean Internet Forum (www.cif.tt) is NOG-like
  - Latin America
    - LacNOG has started by way of mailing list

Questions?