

APNIC Update

SANOG 9
Colombo, Sri Lanka
14 – 24 Jan 2007

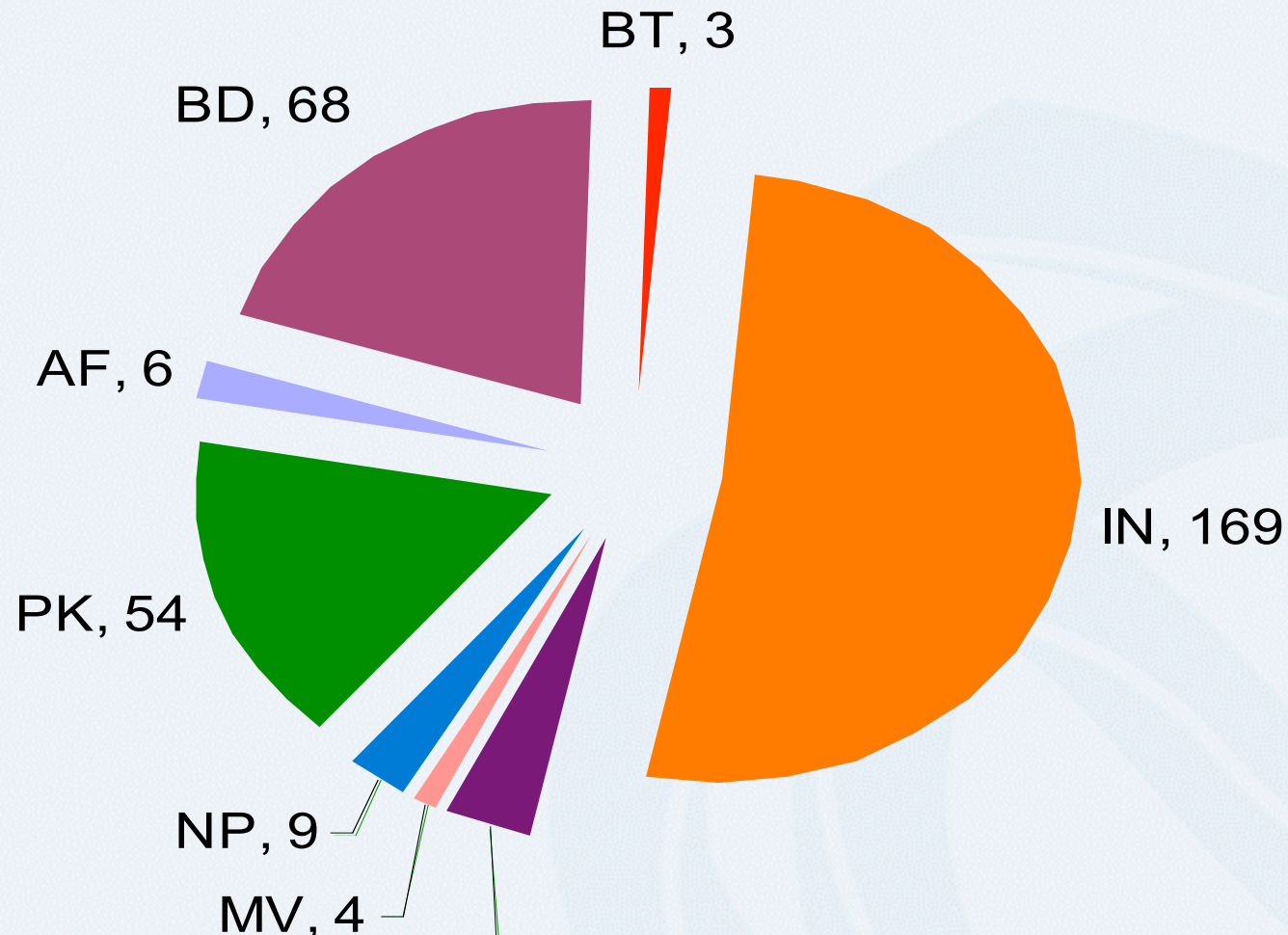
About APNIC

- Regional Internet Registry (RIR)
 - Asia Pacific region
 - Core activity delegation of Internet number resources (IPv4, IPv6 & ASNs)
 - Manages reverse DNS
- Organisational structure
 - Membership based, non-profit
 - Self-regulatory body governed by members & Internet community
 - Bottom up policy & decision making processes

What's coming up..

- Membership & resource statistics
- APNIC activities in SA
- APNIC's New Structure
- Projects
- Recent Policy Implementations
- Meetings

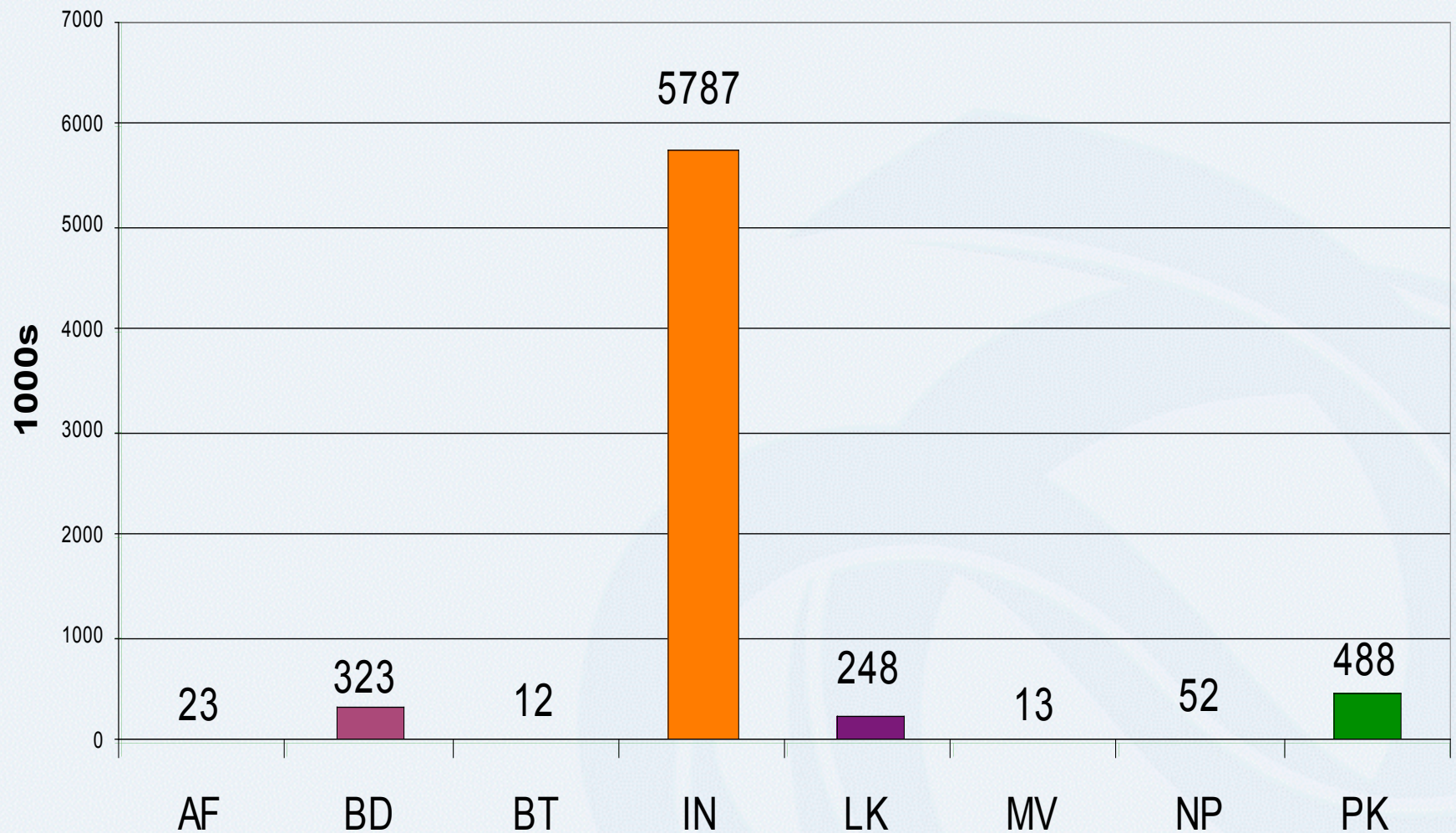
APNIC Membership in SA : 306



Total APNIC membership: 1366

Data valid as of 31 Dec 2006

IPv4 delegations in SA: 20834 (1000's)



Data valid as of 31 Dec 2006

IPv6(/32) delegations in SA: 19

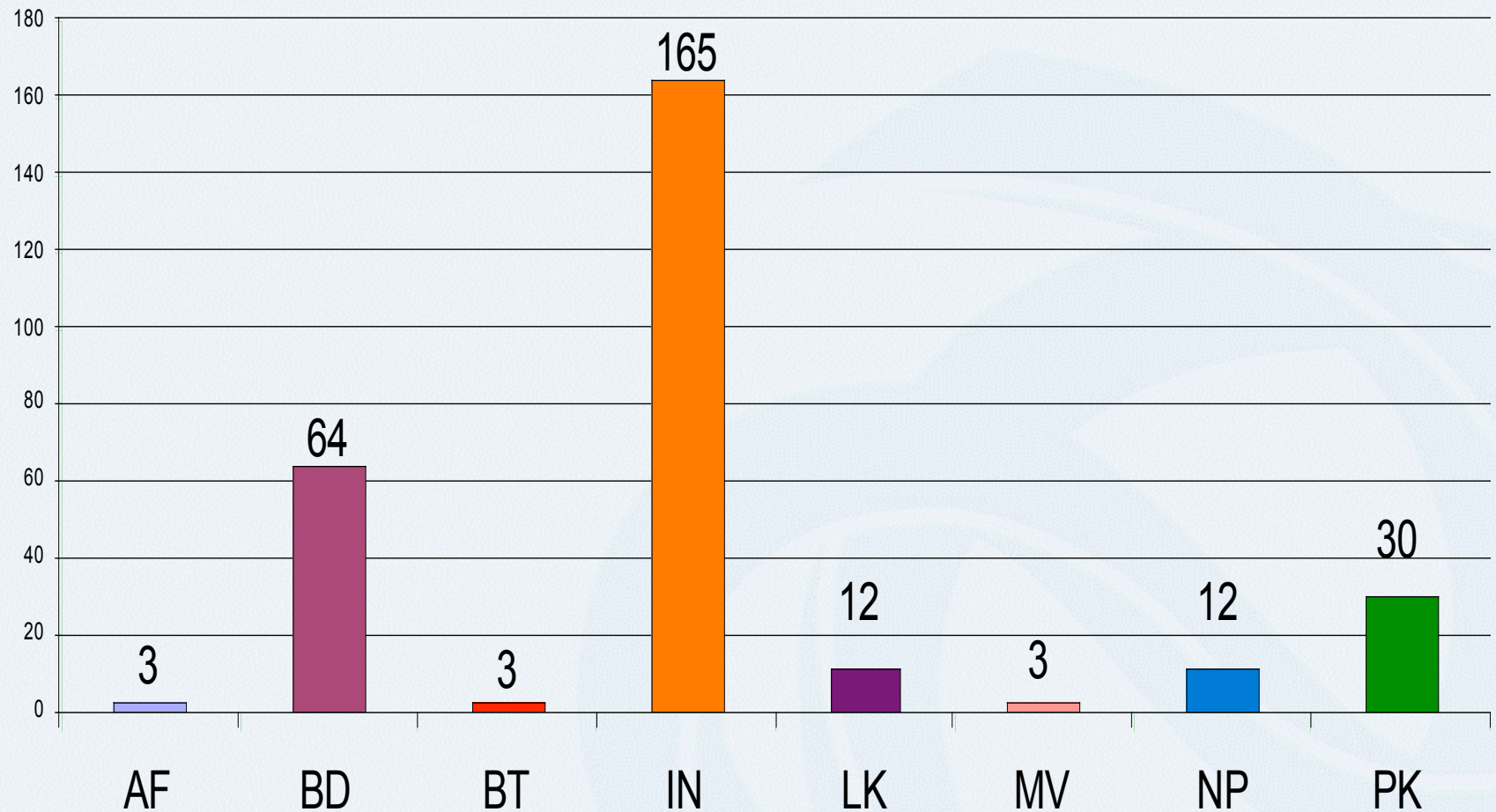
Economy	Number
BD	1
IN	14
PK	4
Total	19

Total IPv6(/32) delegations in AP : 8317

Data valid as of 31 Dec 2006



ASN assignments in SA : 292



Data valid as of 31 Dec 2006

Total ASN assignment in AP: 4052

Collaboration in SA

- MoUs with industry
 - SANOG
 - ISP Associations
 - ISPAB, ISPAI, LISPA, ISPAN, ISPAK
 - NIXI
- Key areas of collaboration
 - Promoting infrastructure development
 - Exchange of information
 - Training program



Root server deployments in SA



Planned training activities in SA

Year 2006		
Course	Date	Location
SANOG 7	16-24 Jan	Mumbai
IRM E	25 Jan	Mumbai
SANOG 8	27-4 Aug	Karachi
IRM E	8 Aug	Delhi
DNS <small>workshop</small>	10-12 Aug	Hyderabad
Routing* <small>Workshop</small>	13-19 Oct	Dhaka
IPv6 <small>Tutorial</small>	15-17 Oct	Colombo
SANOG 9	14-24 Jan	Colombo

Other training options

- Webcast (new!)
 - First IRME training conducted on 29th May
- eLearning



<http://elearning.apnic.net>

APNIC planned training in SA for 2007

Year 2007		
Course	Date	Location
IRME	12 Feb	Dhaka
Advanced DNS Workshop	13-16 Feb	Dhaka
IRME	23 Aug	Kathmandu
IPv6 Workshop	24-25 Aug	Kathmandu
IRME	7 Apr	India
IPv6 Tutorial	8-9 Apr	India

Sponsorships are welcome

Schedule for APNIC trainings:

<http://www.apnic.net/training/schedule/index.html>

APNIC's new structure



Services Area

- Helpdesk Unit
 - Extended helpdesk hours/days
 - Increasing demand for VoIP and “live chat”
- Resource Services Unit
 - Service improvements
 - Policy implementations
- Online Services
 - Revamped ICONS – ISP support website
 - <http://icons.apnic.net>
- Projects
 - “ARMS”: APNIC Resource Management System
 - Public statistics service using “O3”



Sanjaya



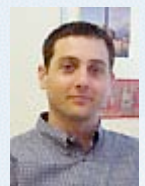
George



Guangliang



Sunny



Frank

Services Area

- Training and Education Unit
 - Pilot webcast of APNIC training
 - Collaborative development of new training modules (initially IPv6 and security)
 - 40 training events in 18 different locations
 - eLearning pilot modules launched



Cecil



<http://elearning.apnic.net>

Communications Area

- Marketing and Outreach
 - Multimedia
 - *APNIC Interactive CD*
 - Website and graphics
 - Work with Network Operator Groups
 - PACNOG, SANOG, NZNOG, PHNOG
 - MoUs for training and cooperative activities
 - ISPAs in South Asia, ISOC-AU, PICISOC, NIDA



Gerard



Nurani



Communications Area

- Policy Unit

- APNIC 22, Taiwan

- Trial of new meeting format with APOPS plenary
 - 8 policy and 1 fee proposal discussed

- Recent APNIC policy changes

- IPv6 HD ratio of 0.94 (subject to other RIRs)
 - 4 byte ASN assignments

- Documentation

- Localising online services

- Forms and help to be in 7 languages, MyAPNIC next

- Content Management System (CMS)

- Recently 4th Member survey has been completed

- <http://www.apnic.net/survey/2007>



Gerard



Son

Technical Area

- Software Unit
 - Reverse DNS update
 - “Web services” – XML over https
 - Immediate success or error reporting
 - DDNS to APNIC’s name servers
 - “Agile Programming” method
 - AKA “rapid prototyping”
 - 3-4 month review and release cycle
- Network Operations and Security
 - Services reliability, distribution and hardening
 - Security audit underway
- Resource certification
 - You’ve heard about this by now...



Sanjaya



Byron



Terry



Siamak



Geoff





eco APNIC

Working sustainably

Want to know more? Please visit:

www.apnic.net/ecoapnic



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Asia Pacific Network Information Centre

ecoAPNIC...

- A staff-driven project aimed at reducing the “ecological footprint” of APNIC operations
 - Recycling
 - Paper reduction
 - Reduce energy consumption and waste
 - Look at transportation and travel
 - Monitoring and reporting
 - <http://www.apnic.net/ecoapnic>



Recent important policy implementation

- AS number

Background of 4 byte AS numbers

- Studies indicate exhaustion of 2 byte AS pool between 2010 and 2016
- Proposed standard to expand AS number space to a 4 byte field
 - Implementation information
 - <http://www.apnic.net/docs/policy/proposals/prop-032-v002.html>
 - Technical implementation
 - <http://potaroo.net/ispcol/2005-08/as.html>

4 byte AS implementation

- 1 January 2007
 - 16 bit AS numbers continue to be assigned
 - 32 bit AS numbers assigned if requested
- 1 January 2009
 - 32 bit AS numbers assigned
 - 16 bit AS numbers assigned if requested
- 1 January 2010
 - Distinction between 16 and 32 bit AS numbers ceased
 - AS assignments from undifferentiated 32 bit AS number pool

Next meetings



- APRICOT 2007, APNIC 23
 - Bali, Indonesia
 - 27 Feb-2 Mar, 2007
- SANOG 10, APNIC 24
 - India
 - 24 Aug – 7 Sept 2007
 - Fellowship will be available
- Participate remotely!
 - Webcast, podcasts, jabber chat,
live transcripts
- Everyone is welcome
 - <http://www.apnic.net/meetings>



Thank You

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