



AfriNIC-6



Abuja - Nigeria
28 April - 4 May 07

Software & Engineering

Hari KURUP



Highlights

- 32 bit (4 byte) ASN readiness
- AfrinIC ERX transfer Project
- MyAfrinIC
- ICONS
- DNS + WHOIS service
- Resource Certification
- Other Activities





32 bit ASN activation

- ***WHOIS server, Registration system, statistics file were upgraded.***
- ***Some bugs identified and changes finalised on 8th January 2007.***



AfrINIC ERX Project



- Done in two phases co-ordination with RIPENCC
- 56 former Class B allocations in the 163/8 and 165/8 blocks
- 28 Provider Independent (PI) assignments in the 83/8, 84/8, 192/8, 193/8, 194/8 and 195/8 blocks
- 37 domain objects representing reverse delegations for these ranges
- 63 AS Numbers and their associated maintainer and person objects



- Completed end of January 2007
 - Online payment
 - Membership Invoices
 - Ticketing integration
 - Documentation



My AfrinIC trials



- 7 LIRs participated
 - eNetworks (South Africa)
 - Ghana Telecom (Ghana)
 - Ministry of Communications and Information Technology (Egypt)
 - Ponto de Intercambio Internet Angola (Angola)
 - Skannet (Nigeria)
 - Sonatel (Senegal)
 - Sudatel (Sudan)



MyAfrinIC status

- Trials completed April 2007
- Live soon!





ICONS (<http://icons.afrinic.net>)



- icons.afrinic.net domain was setup
- Content added for African NICs, IXPs and internet associations



DNS service



- Bandwidth requirements for serving of reverse DNS zones continues to grow.
- Evaluating possibility of collocating the service with Internet Solutions
- Anycast DNS being looked into.



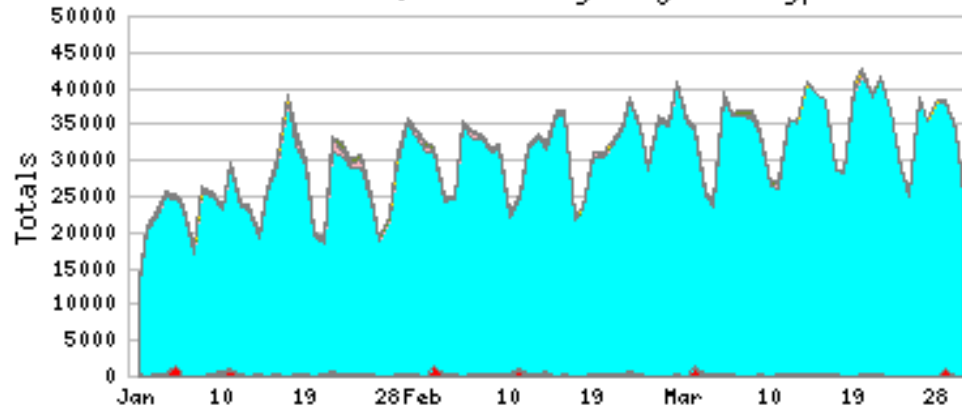
Whois service

- Upgraded for syntax changes, bug fixes and 32 bit ASN readiness in Jan 2007
- Has mostly been reliable and stable
- Averages 31269 queries per day compared to 9704 for the same period in 2006.



WHOIS service

Total Queries By Object Type



Jan 01, 2007 - Mar 31, 2007 (Daily)

as-block	Avg:	2	Max:	123	Min:	0
as-set	Avg:	1	Max:	12	Min:	0
aut-num	Avg:	164	Max:	1,341	Min:	16
domain	Avg:	64	Max:	473	Min:	0
inet6num	Avg:	88	Max:	325	Min:	68
inetnum	Avg:	30,240	Max:	41,509	Min:	12,260
key-cert	Avg:	2	Max:	38	Min:	0
limerick	Avg:	0	Max:	0	Min:	0
mntner	Avg:	361	Max:	1,288	Min:	29
organisation	Avg:	16	Max:	333	Min:	0
person	Avg:	330	Max:	1,320	Min:	50
role	Avg:	2	Max:	70	Min:	0



WHOIS service

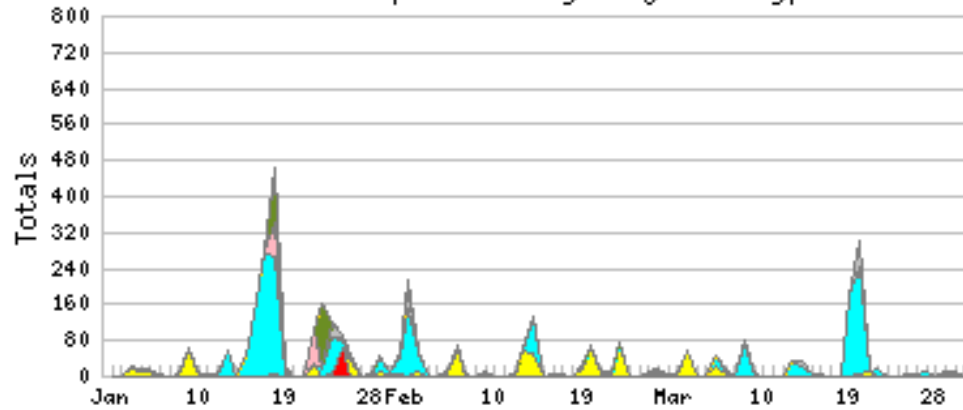
- Changes to the Whois database remain incremental
 - on average
 - 25 object additions
 - 13 updates
 - 1 deletion per day





Whois db updates

Total Updates By Object Type



Jan 01, 2007 - Mar 31, 2007 (Daily)

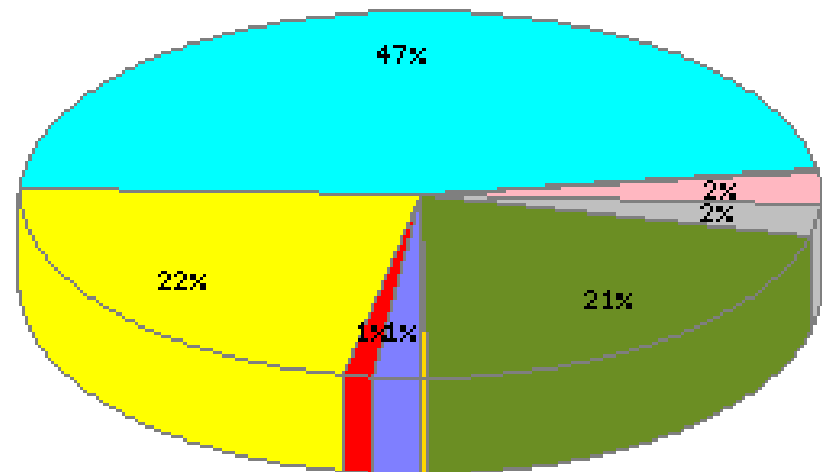
as-block	Avg:	0	Max:	0	Min:	0
as-set	Avg:	0	Max:	0	Min:	0
aut-num	Avg:	1	Max:	64	Min:	0
domain	Avg:	7	Max:	67	Min:	0
inet6num	Avg:	0	Max:	3	Min:	0
inetnum	Avg:	22	Max:	279	Min:	0
key-cert	Avg:	0	Max:	8	Min:	0
limerick	Avg:	0	Max:	0	Min:	0
mntner	Avg:	2	Max:	75	Min:	0
organisation	Avg:	2	Max:	53	Min:	0
person	Avg:	4	Max:	140	Min:	0
role	Avg:	0	Max:	7	Min:	0

Objects in the whois db

28,558 objects

- inetnum objects (47%)
- domain objects (22%)
- person objects (21%).

Total Objects in Whois Database



as-block (543)	as-set (4)
aut-num (329)	domain (6,410)
inet6num (45)	inetnum (13,448)
key-cert (59)	limerick (1)
mtner (855)	organisation (737)
person (6,044)	role (84)



Resource Certification

Ongoing ...

- Through the Engineering Coordination Group of the NRO (ECG)
- CA Trial is still at an early development stage
- Collaborating with RIRs towards implementing resource certification



Other activities (completed)

- Improvements in management of the public mailing lists
- Upgrades of system components
- Improving interconnection between AfrinIC locations
 - Automated VPN connection between AfrinIC locations
 - Local Mail and DNS server
- eGroupware – staff intranet



Ongoing...

- Replacement of old hardware
- IP telephony
- Co-location of reverse DNS server
- Network Security audit





- Yaovi Ahadjitse – Database Manager



Thank You!