

Registration Service Report

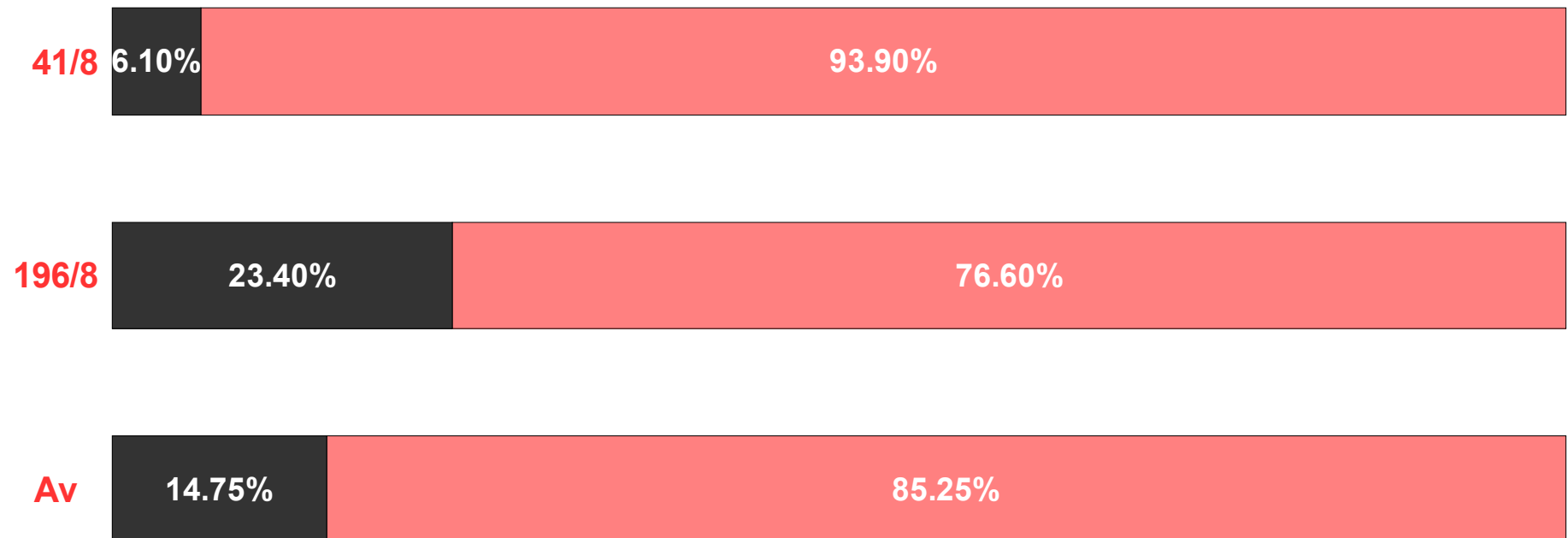
Ernest Byaruhanga
Manager, RS.

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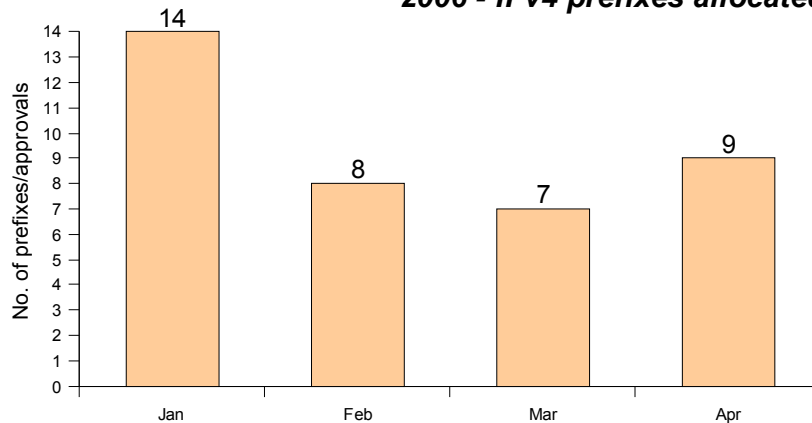
- Currently allocating/assigning from two /8s:
 - 196/8 : PI space, IXPs, Temporary allocations / assignments, experiments. (Min. prefix : /24)
 - About 79 prefixes allocated outside the AfrinIC service region.
 - 41/8: Allocations to LIRs – Min. prefix: /22.
 - Allocated to AfrinIC : June 2005
 - Started allocating from this block : Feb 2006

- IPv4 - Utilization overview (*Used/Free*):

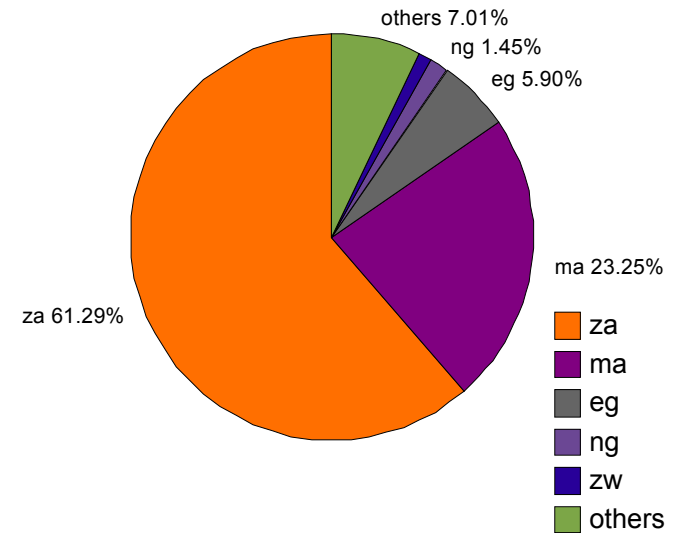


IPv4 – 2006 allocation data

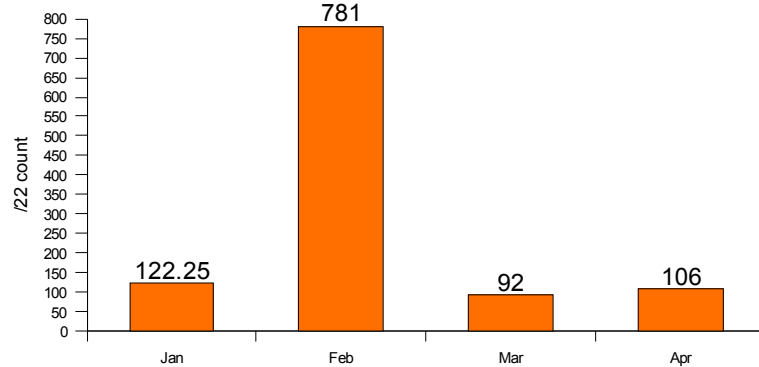
2006 - IPv4 prefixes allocated



2006 - Top 5 countries

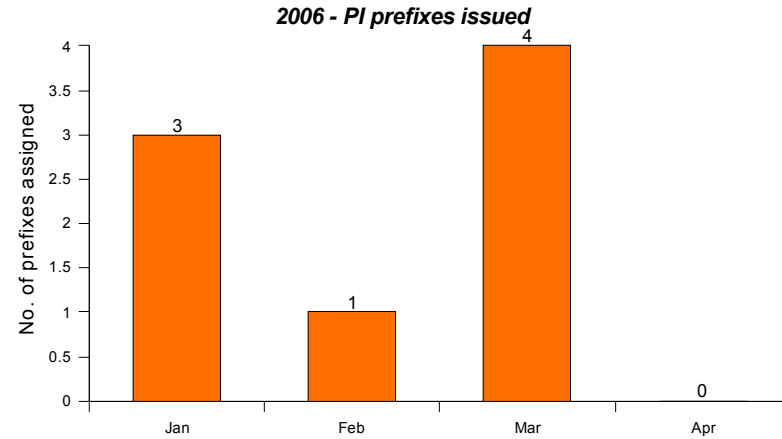
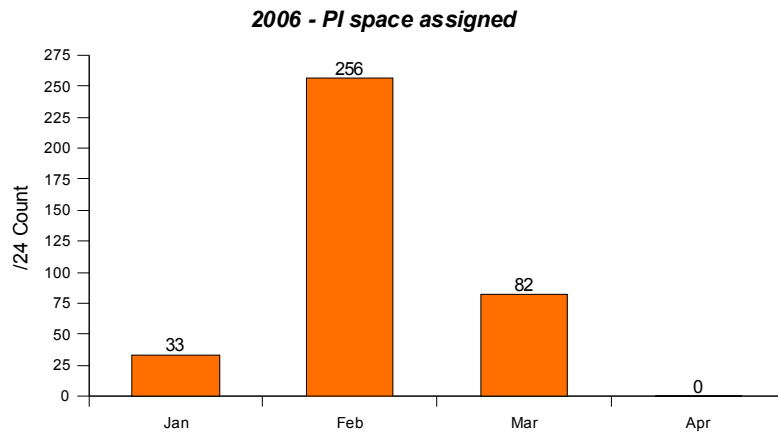


2006 - No. of /22s allocated



Total allocated from Jan 2006 to date: **Approx. /12**

IPv4 – PI assignment data

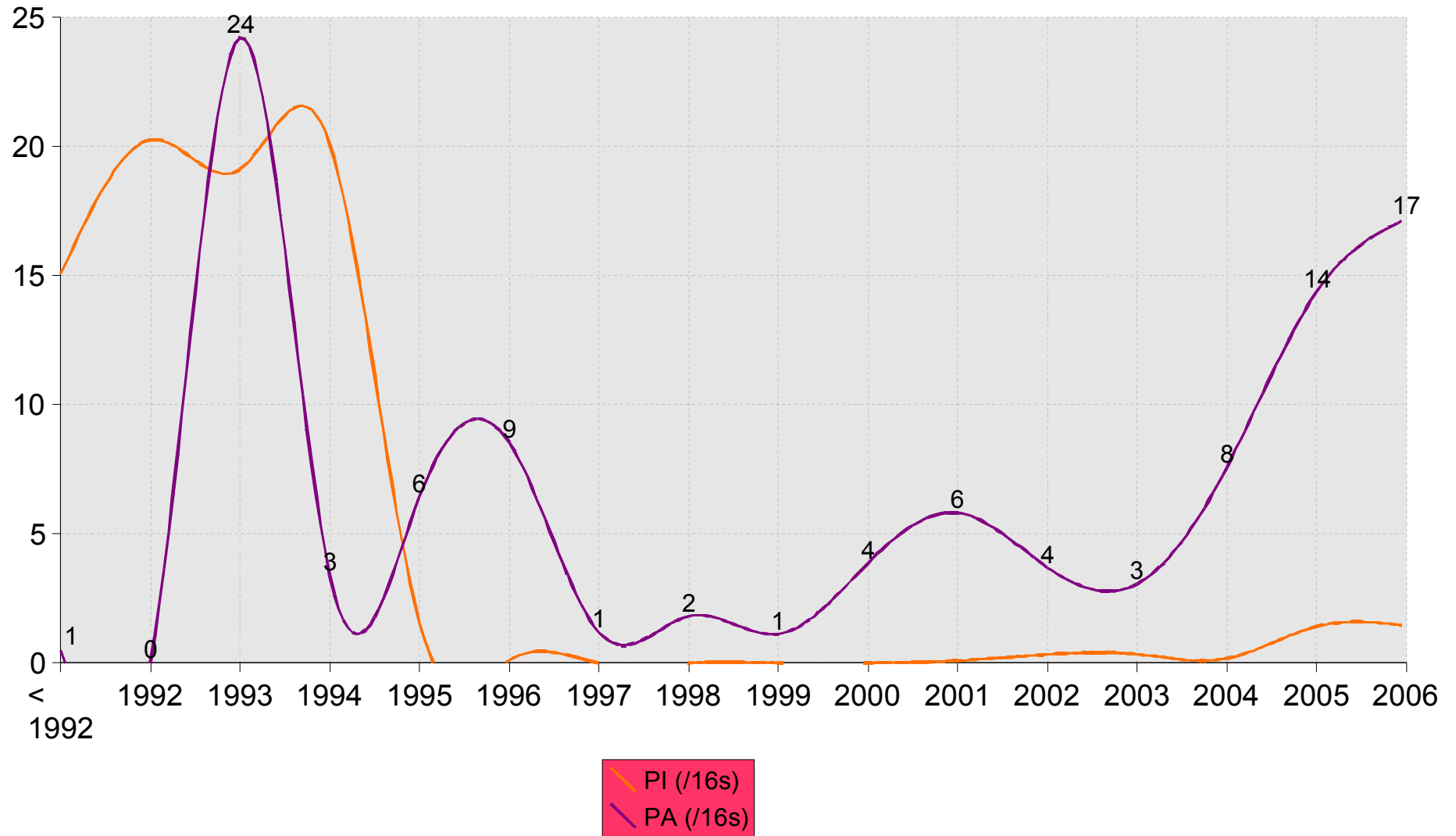


Notes :

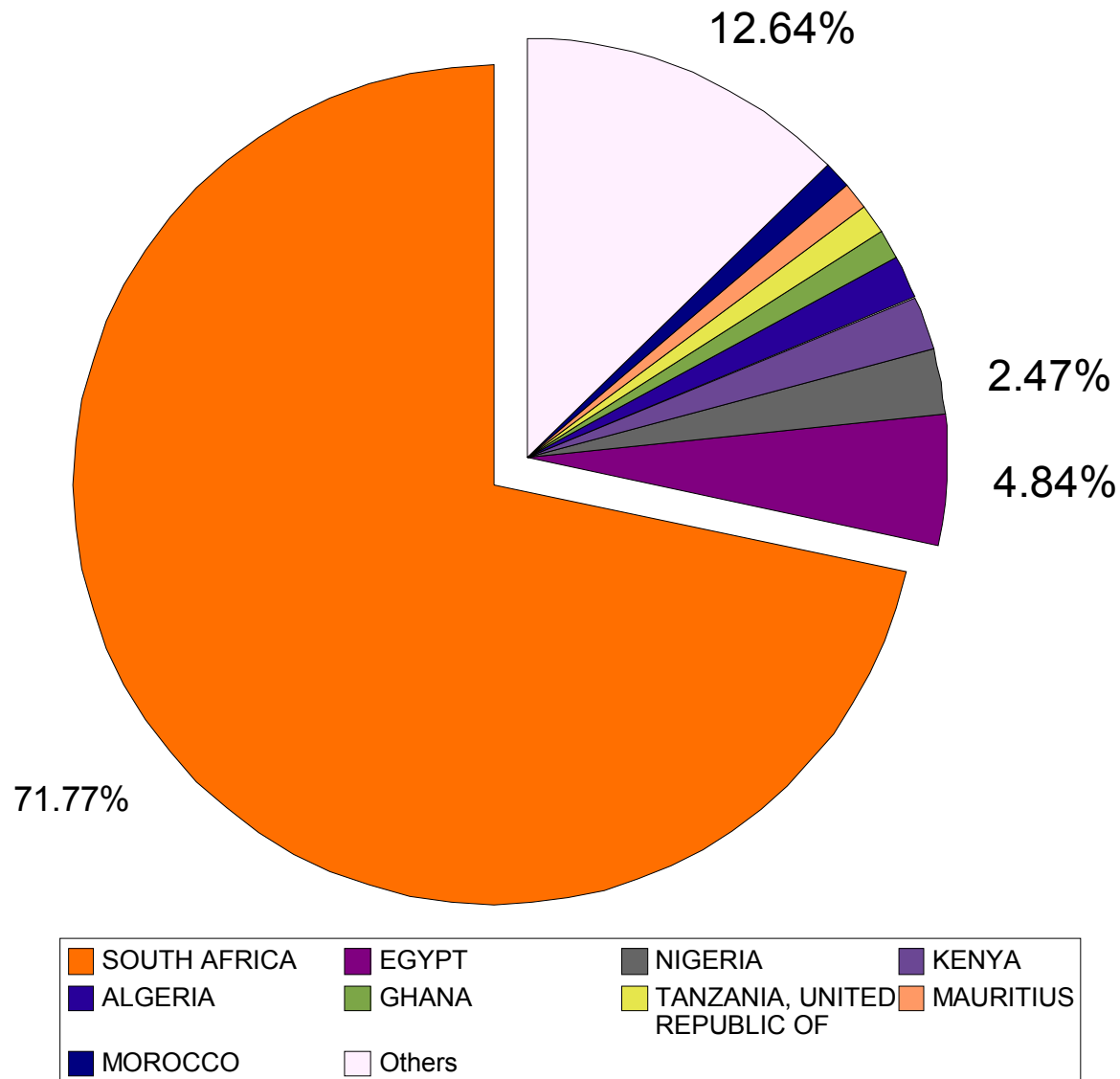
Prefixes assigned to IXPs: 3

Temporary Prefix Assignments : 1

IPv4 – historical data



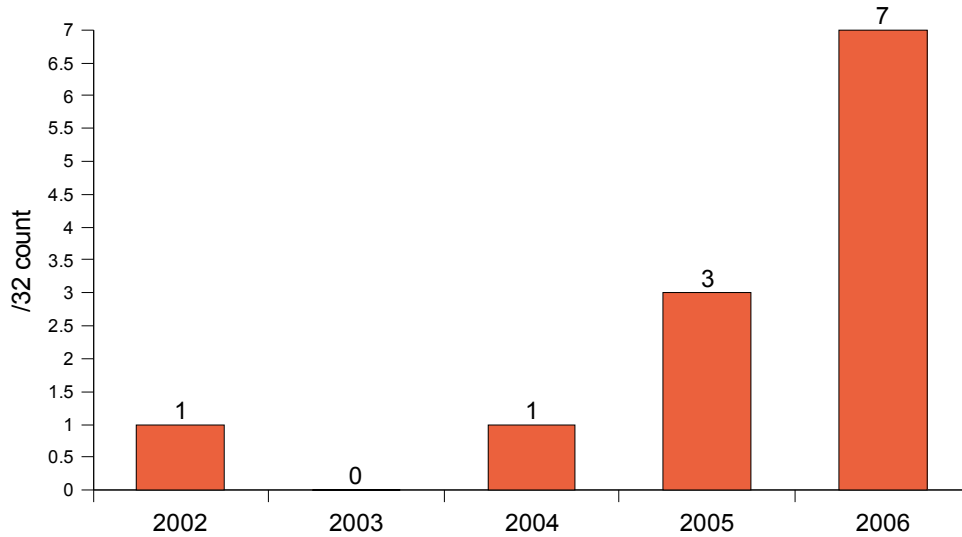
IPv4 – Total Distribution



IPv4 - Summary

- Total prefixes issued: 1012
- Total PI addresses assigned:
5240320
- Total PA addresses allocated: 6735616
- *Total v4 addresses in use :*
11975936
 - *Equivalent number of /8s in use:* 0.71
- *Biggest allocated prefix:* /13

IPv6 – allocation stats



2006 prefix allocations:

Jan	3	
Feb	1	
March	2	
April		1

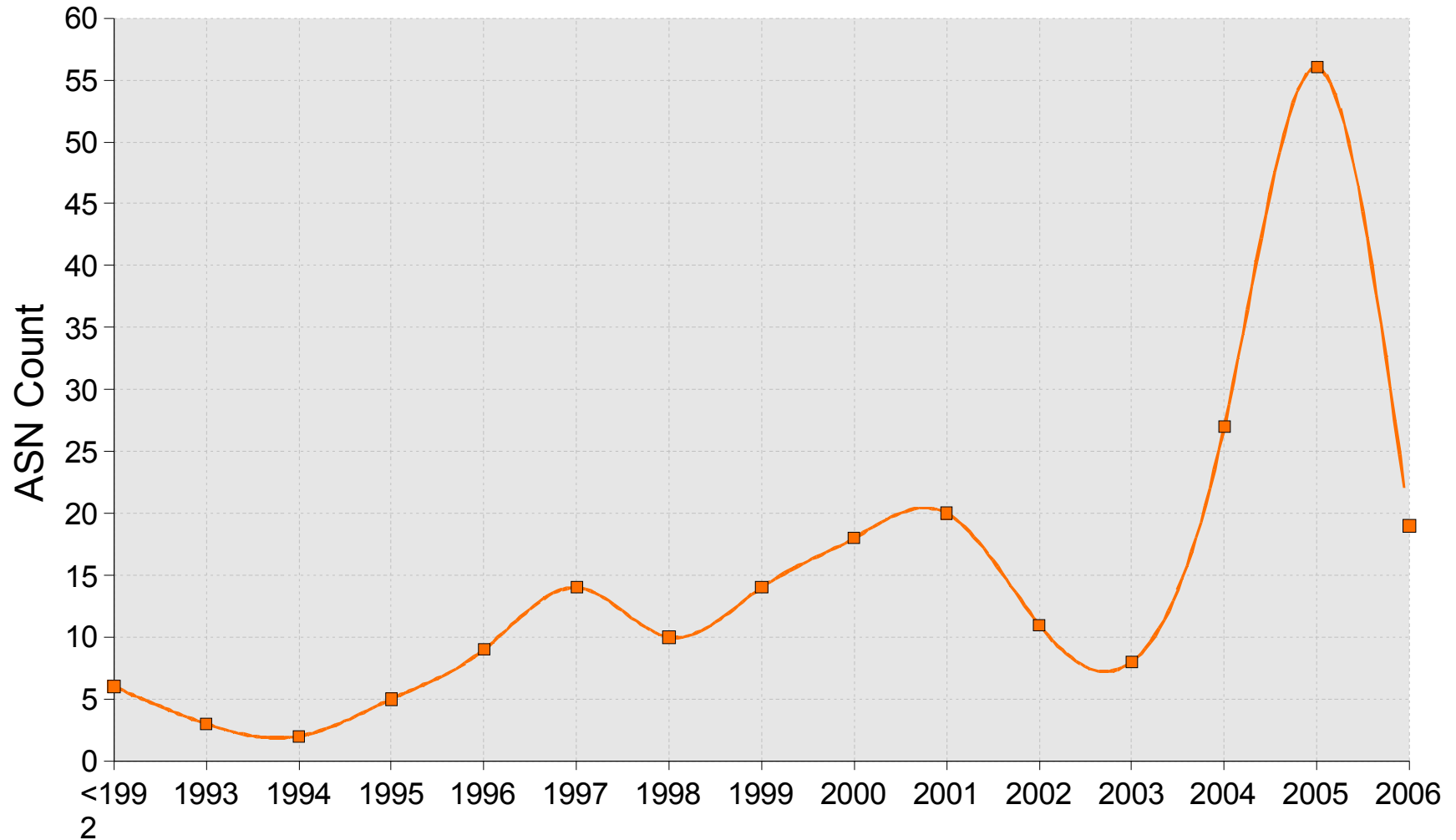
prefix distribution by country:

za	5
eg	3
tn	1
ma	1
sd	1
ke	1

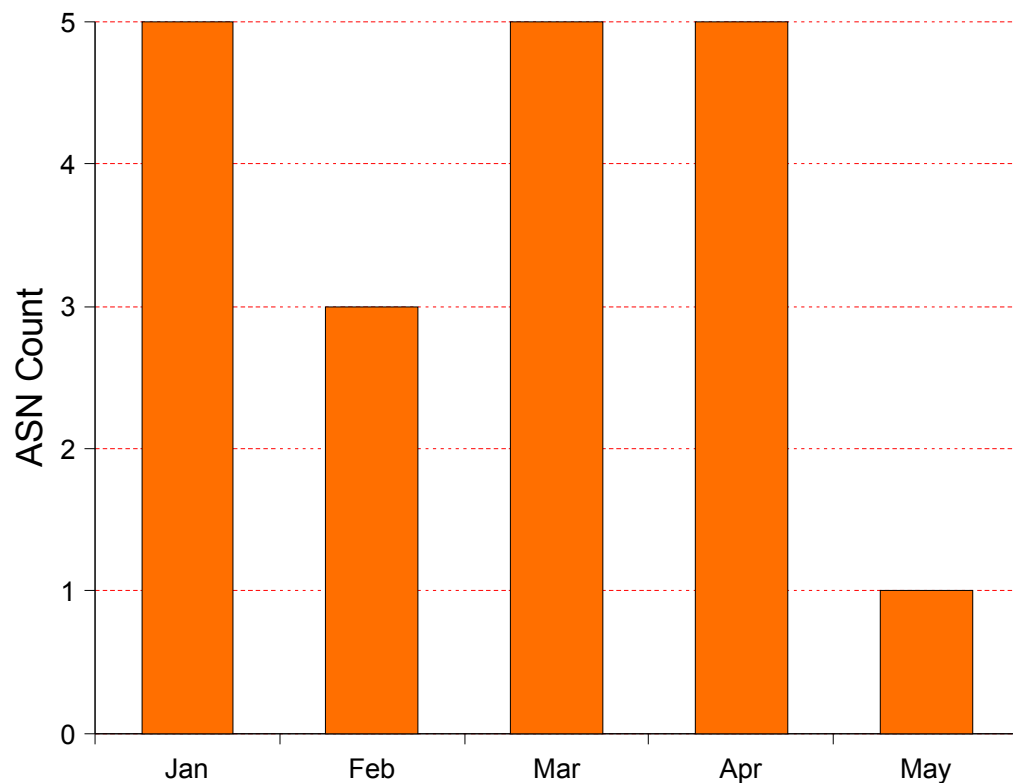
Total IPv6 prefixes allocated in Afrinic service region: 12

- Current prefix used is 2001:4200::/23
 - All previous v6 allocatees with prefixes not from 2001:4200::/23 advised to contact AfrinIC for renumbering to this block.
 - Reverse delegation and other resources can be managed from one whois db.
 - Most LIRs have renumbered, about 3 are left.
 - Some prefixes issued in 2006 are a result of the renumbering process.

AS Numbers

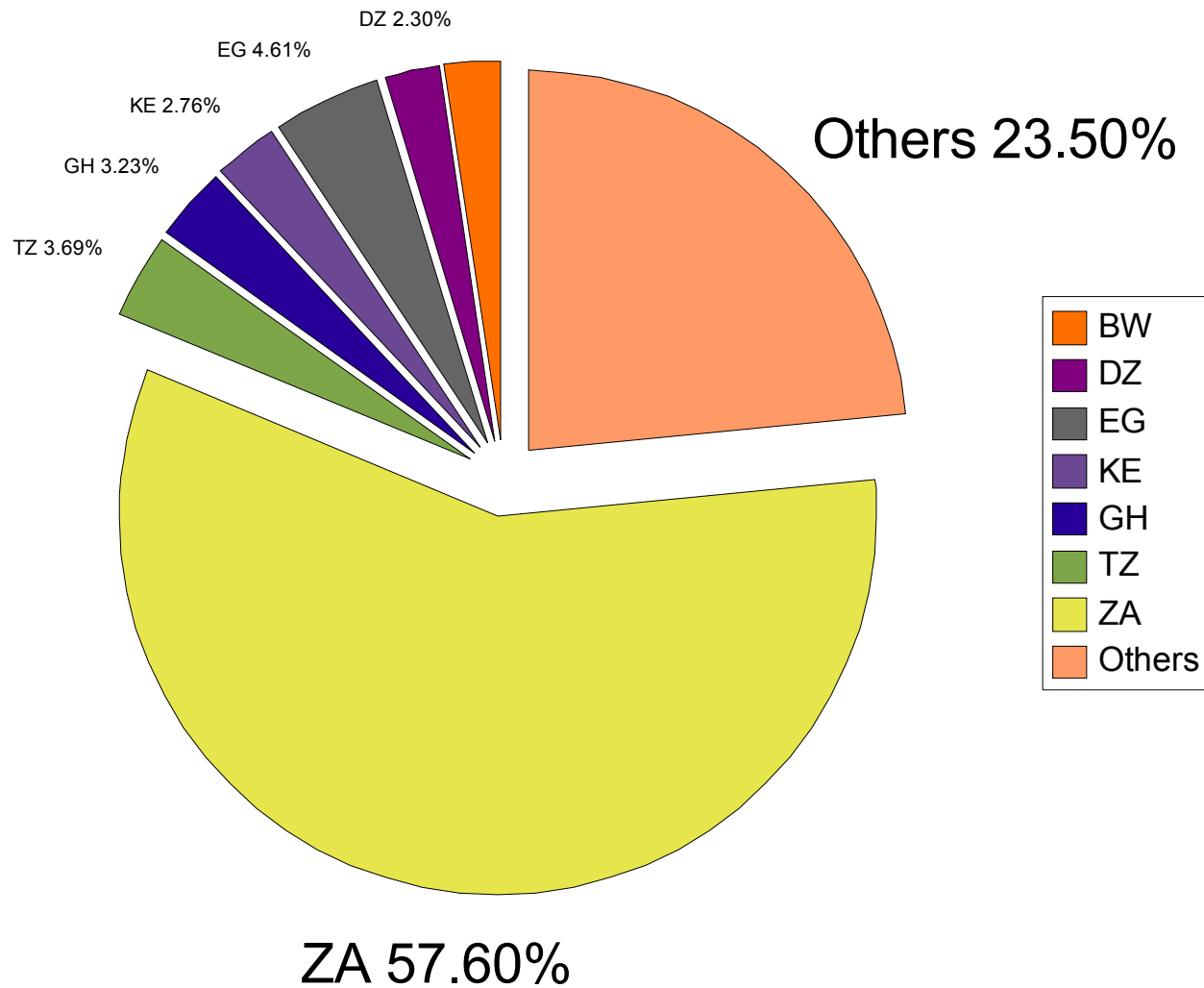


AS Numbers (Assigned in 2006)



AO	1
CY	1
DE	1
DZ	1
EG	2
GH	2
KE	1
MU	1
NG	1
RW	1
SC	1
TZ	1
UG	1
ZA	3

ASN - Distribution by country

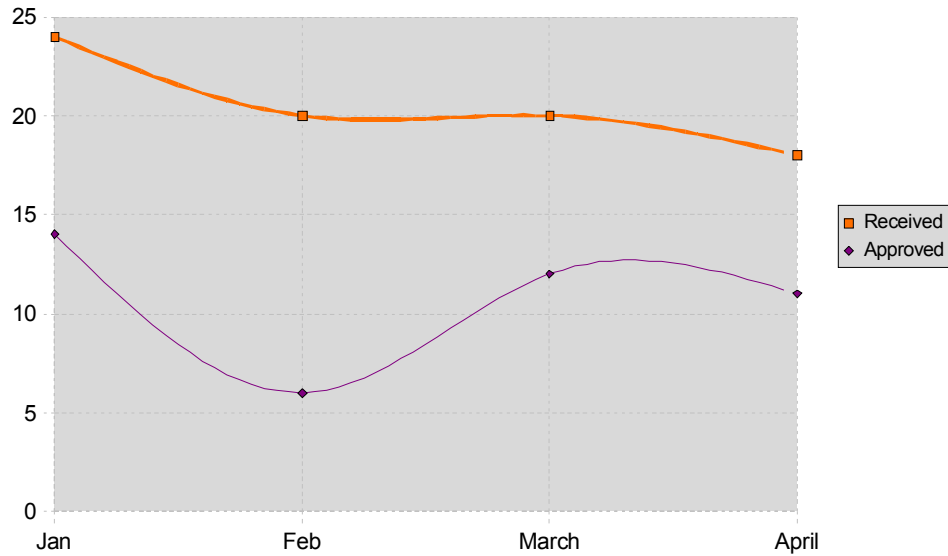


ASN - Summary

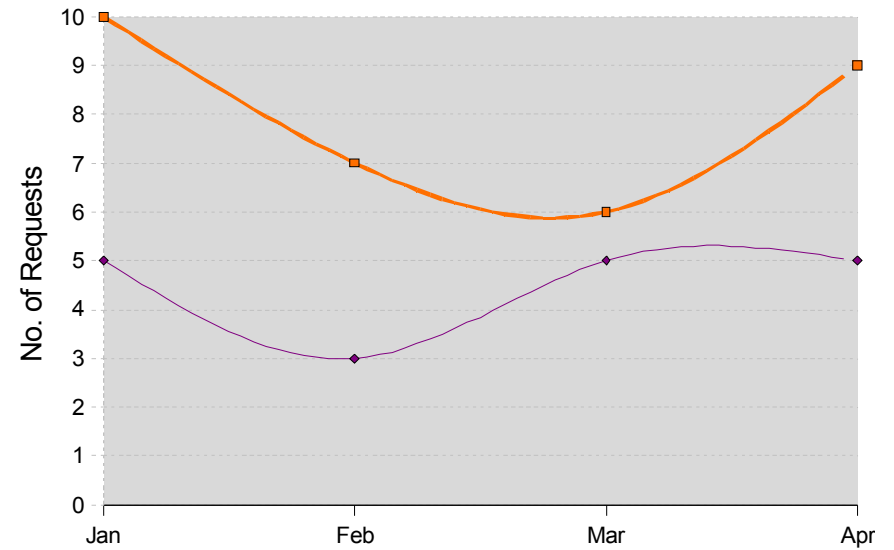
- Total AS Numbers in Afrinic region: **222**
 - ASNs Assigned in 2006 (to date): **18**
- ASN Block (Range) in Use: **AS36864 – AS37887**
 - AS Block Utilization:
 - Assigned: **4%**
 - Unassigned: **96%** (984 AS Numbers)
- Check out the 4-Byte AS Number Proposal:
 - [*draft-ietf-idr-as4bytes-12.txt*](#) (~ 4 billion ASNs)

Request Statistics

IPv4



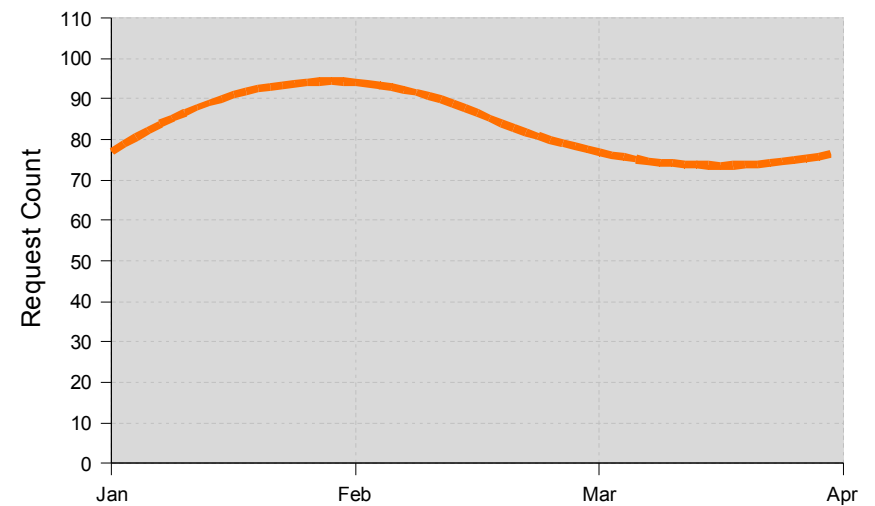
AS Numbers



IPv6:

	Jan	Feb	March	April
Received	3	2	2	2
Approved	3	1	2	1

Requests (Total) Handled



Recent Activities - IPv6

- Renumbering into 2001:4200::/23
 - Before Afrinic, v6 allocations to Africa were done from different blocks.
 - No IPv6 block was set-aside by the RIRs for allocation to Africa.
 - After Afrinic recognition, 2001:4200/23 allocated to Afrinic by IANA.
 - All holders of prefixes outside 2001:4200::/23 advised to return prefix to previous RIR for replacement by a prefix from 2001::4200::/23

Recent Activities - IPv6

- Reverse delegation requested from appropriate RIR
- Inconsistency
- Easier management of all resources held from one central location (Afrinic)
- All such LIRs contacted, procedure suggested
 - /32 allocation replaced
 - sufficient time allowed for renumbering
- 3 LIRs left to complete the exercise.
 - *Similar exercise conducted by LACNIC.*

Recent Activities - IPv4

- Cleanup of the allocation/assignment stats on <ftp://ftp.afrinic.net/pub/stats/afrinic>
 - Stats had inconsistent data after transition.
 - Several returned /16s (by TENET) : Afrinic to directly manage all assignments/sub-allocations under (from ASSIGNED PA to ASSIGNED PI).
 - Over 800 records updated (allocation dates, status)
 - Similar number in the whois db corrected and updated.

Recent Activities - IPv4

- Reachability/Routability tests for new IANA allocation to Afrinic: (41/8)
 - Some ISPs/providers filter unallocated prefixes (usually used by spammers, etc)
 - When the block is ready for use, some take a while to adjust these filters.
 - Carried out reachability tests (with Internet Solutions South Africa for a while before allocating from 41/8).
 - Still receive a few complaints : LIRs to contact the ISP doing the filtering. We may also help here.

Recent Activities - Staff

- Staff:
 - Hostmaster Trainee (Radha).
 - Training started: Jan 2006
 - Training programme span: 6 – 8 months.
 - Currently handling most ASN and IPv4 resource requests from members.
 - Also deals with new members and related inquiry.



Questions ???

Thank You! Asante !