

Routing Report update for AfriNIC service region

alain@trstech.net

AfriNIC-4

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Philip Smith weekly Routing Table Report

This is an automated weekly mailing describing the state of the Internet Routing Table as seen from APNIC's router in Japan.

Daily listings are sent to gp-stats@lists.apnic.net

[.....]

AfriNIC Region Analysis Summary

Prefixes being announced by AfriNIC Region ASes:	2131
Total AfriNIC prefixes after maximum aggregation:	901
Prefixes being announced from the AfriNIC address blocks:	1457
Unique aggregates announced from the AfriNIC address blocks:	948
AfriNIC Region origin ASes present in the Internet Routing Table:	155
AfriNIC Region origin ASes announcing only one prefix:	48
AfriNIC Region transit ASes present in the Internet Routing Table:	25
Average AfriNIC Region AS path length visible:	3.5
Max AfriNIC Region AS path length visible:	13
Number of AfriNIC addresses announced to Internet:	4057344
Equivalent to 0 /8s, 61 /16s and 233 /24s	
Percentage of available AfriNIC address space announced:	12.1

AfriNIC AS Blocks 36864-37887 & ERX transfers

AfriNIC Address Blocks 41/8, 196/8

Goals

- Analyse the global Internet routing table
- Analyse AfriNIC allocated resources usage in the Internet routing table
- Check AfriNIC service region compliance to the Kyoto Protocol to the Secret Working Group Framework Convention on BGP 😊

Abstract

« This document provides the definition of the Kyoto Protocol, an international protocol directed to achieving a sustainable inter-domain routing environment through the adoption of a protocol directed at achieving a reduction in the level of emission of BGP update messages that must be propagated through the global routing domain. »

- Publish periodic reports

Data sources (1)

1-BGP data

Route-views project (www.routeview.org)

- view from route-views.oregon-ix.net
- 57 BGP peers
- <http://archive.routeviews.org/oix-route-views/>

APNIC router

-DIX-IE (formerly NSP-IXP2) in Japan, two transit providers, ASN 2497 and 2516, plus about another 40 BGP peers

- Best paths selected

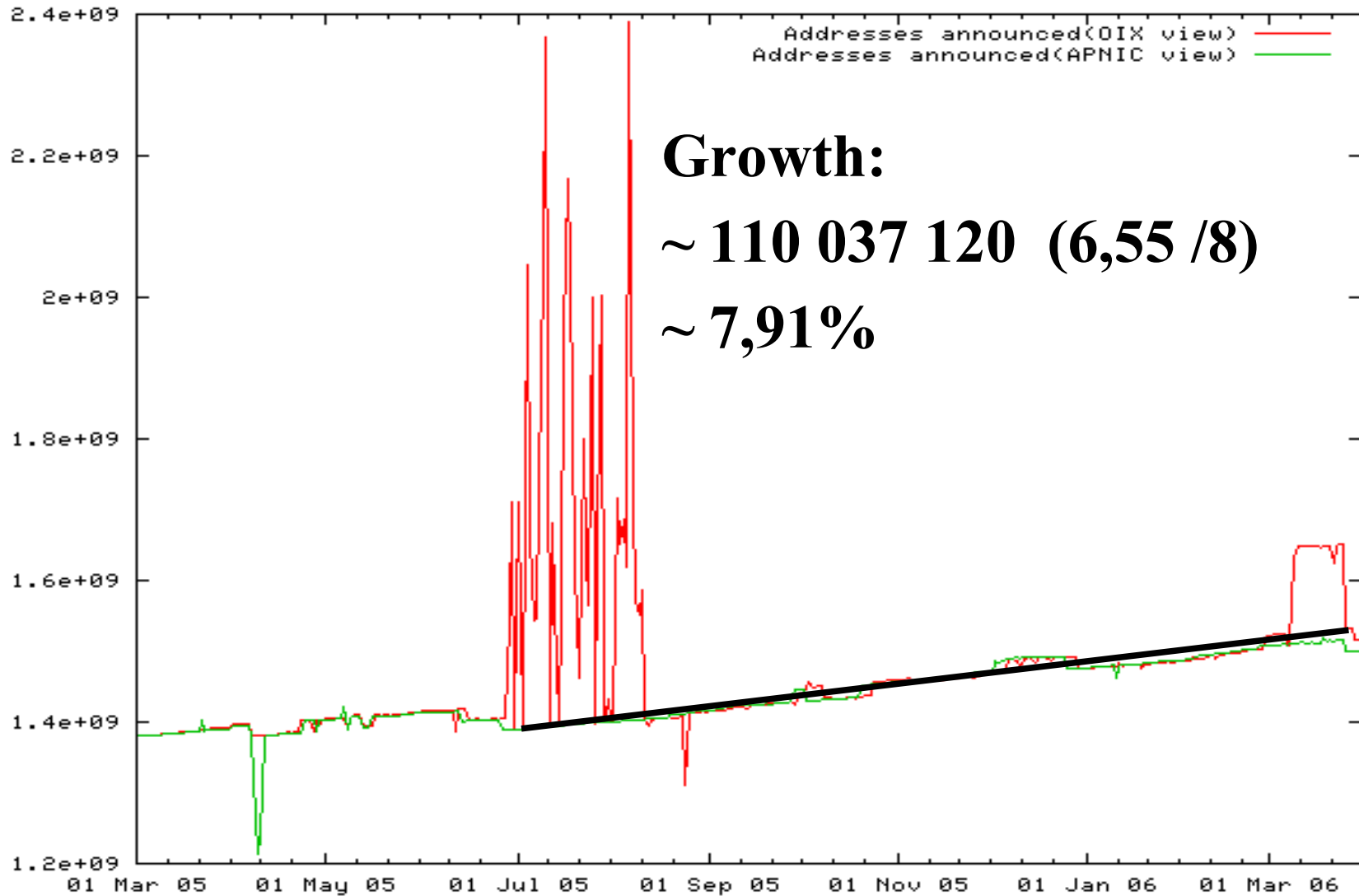
2- AfriNIC region service allocation statistics

- <ftp://ftp.afrinic.net/pub/stats/afrinic>

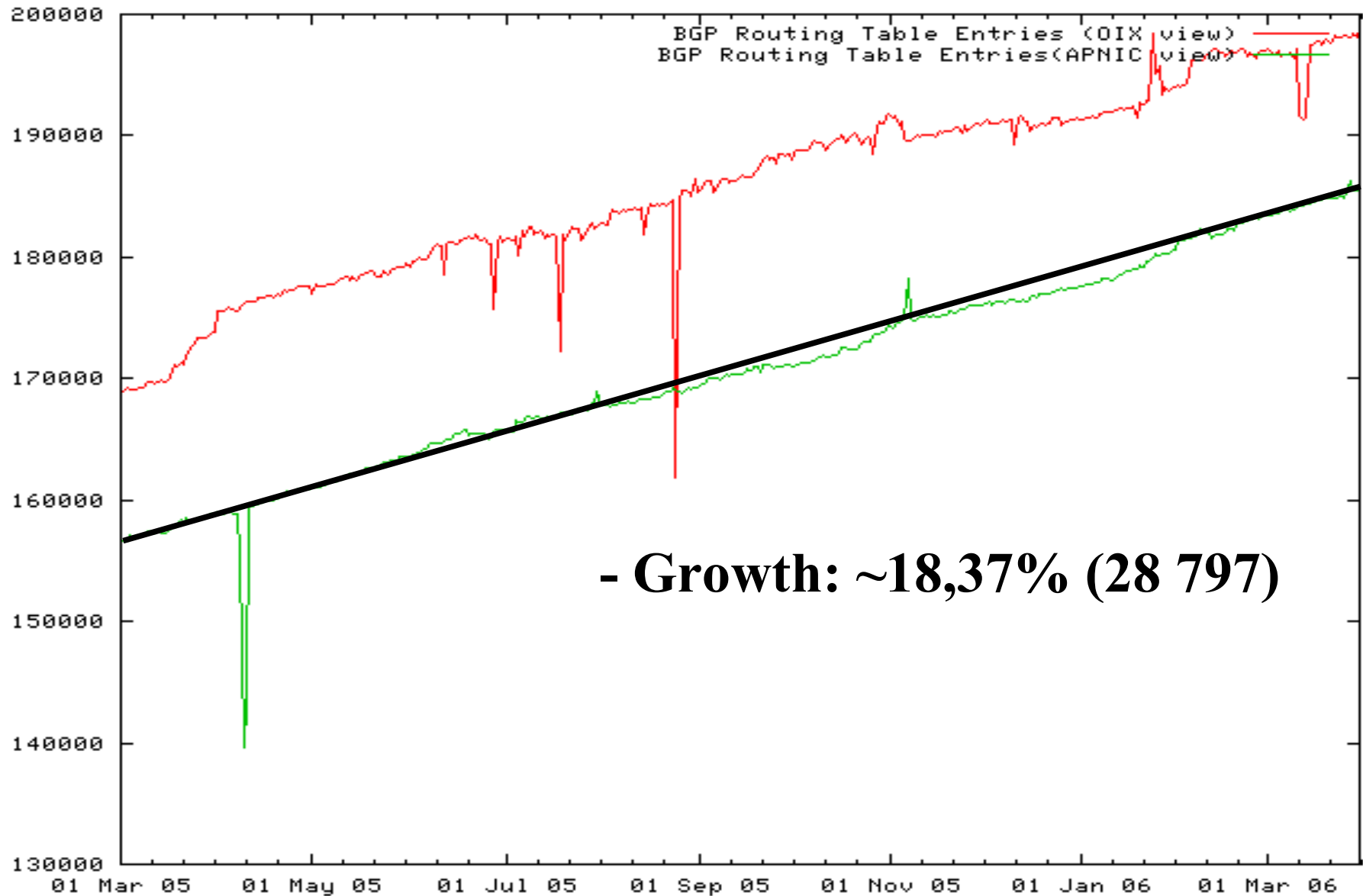
Data sources (2)

- Analysis period is from 1st march 2005 to 31th march 2006 (13 months)
- Routing table analysis for AfriNIC service region based on:
 - AfriNIC AS Blocks : 36864-37887 & ERX transfers**
 - AfriNIC Address Blocks : 41/8, 196/8**

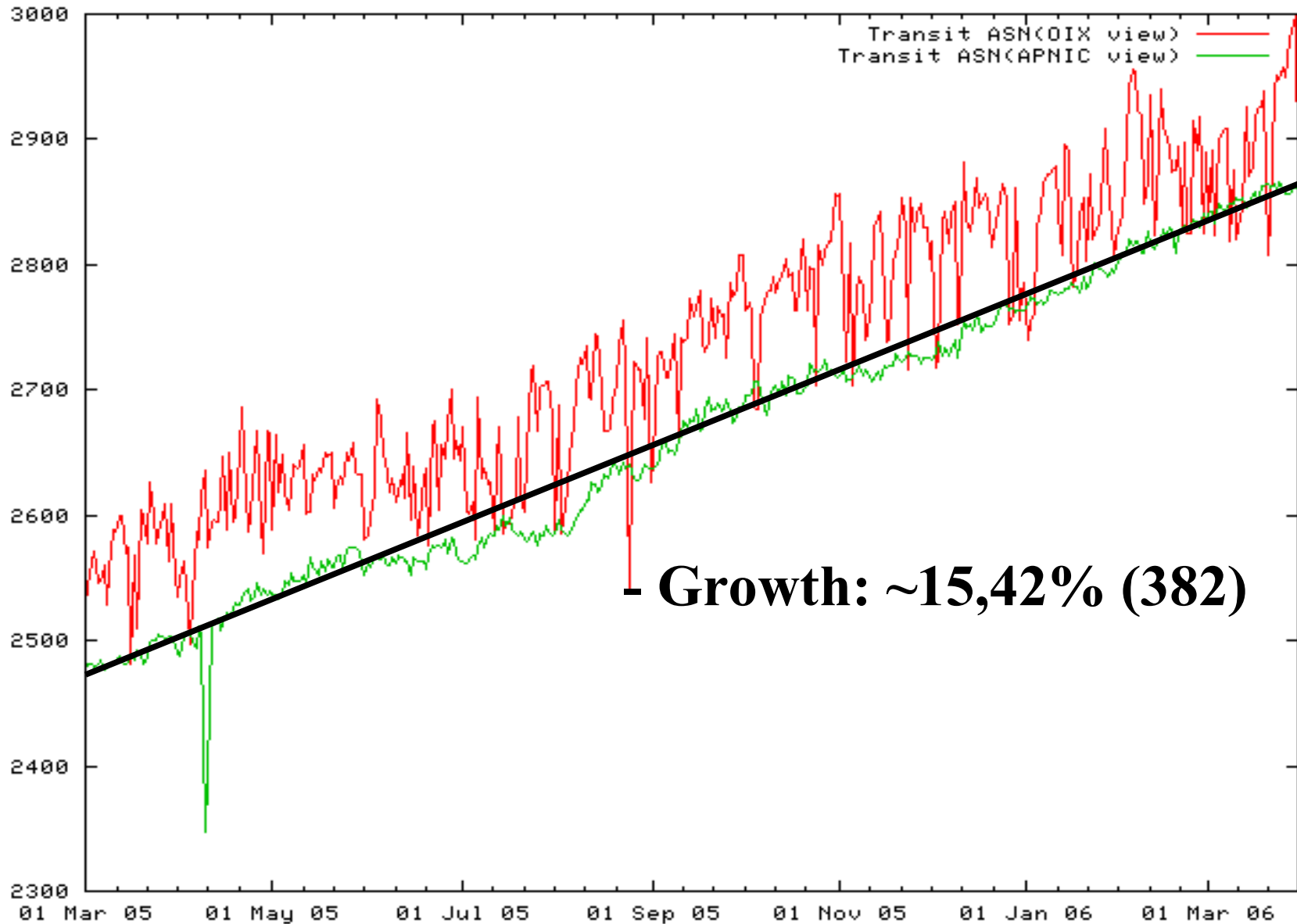
Number of addresses announced to Internet



BGP routing table entries

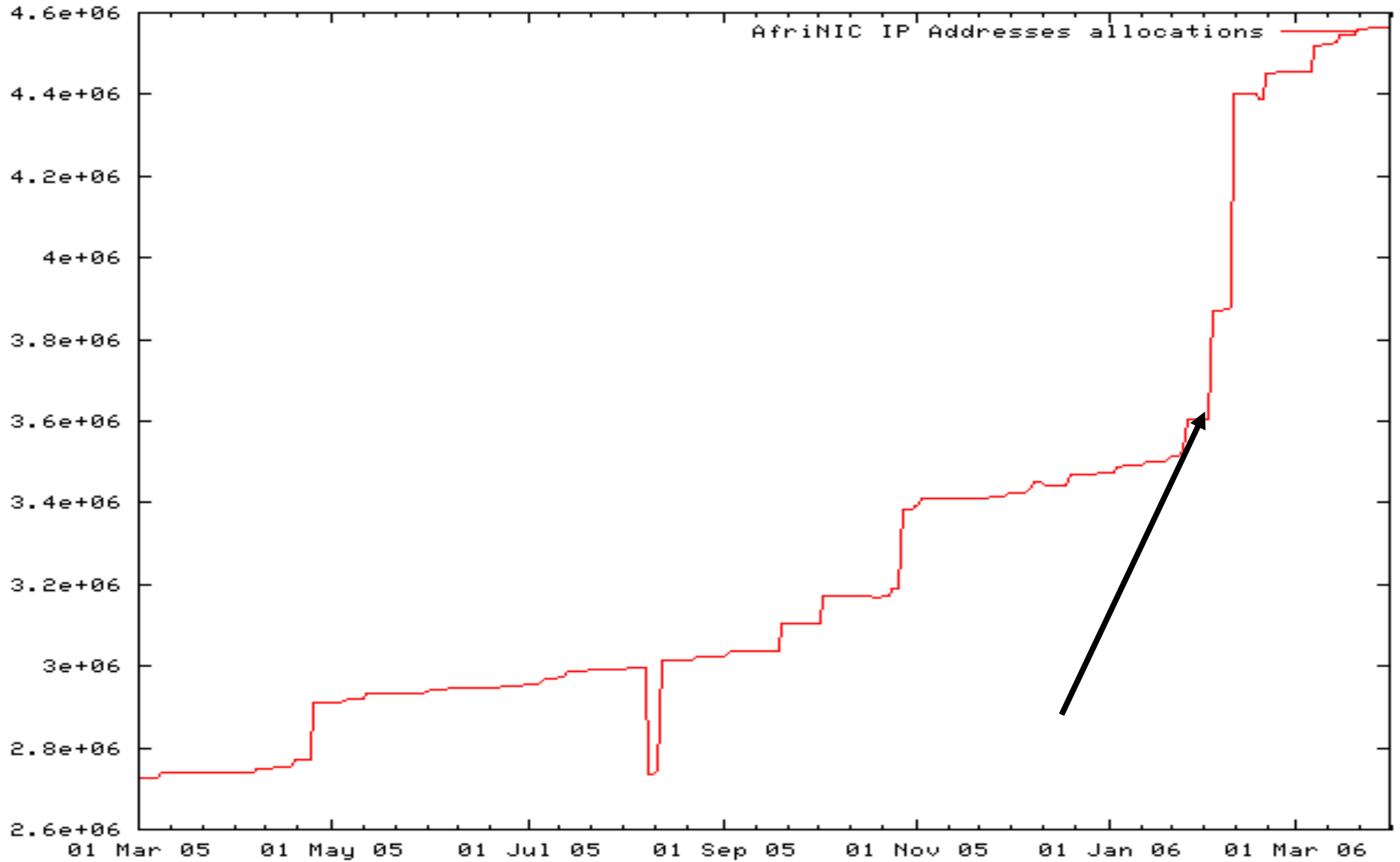


Transit ASes present in the Internet Routing Table

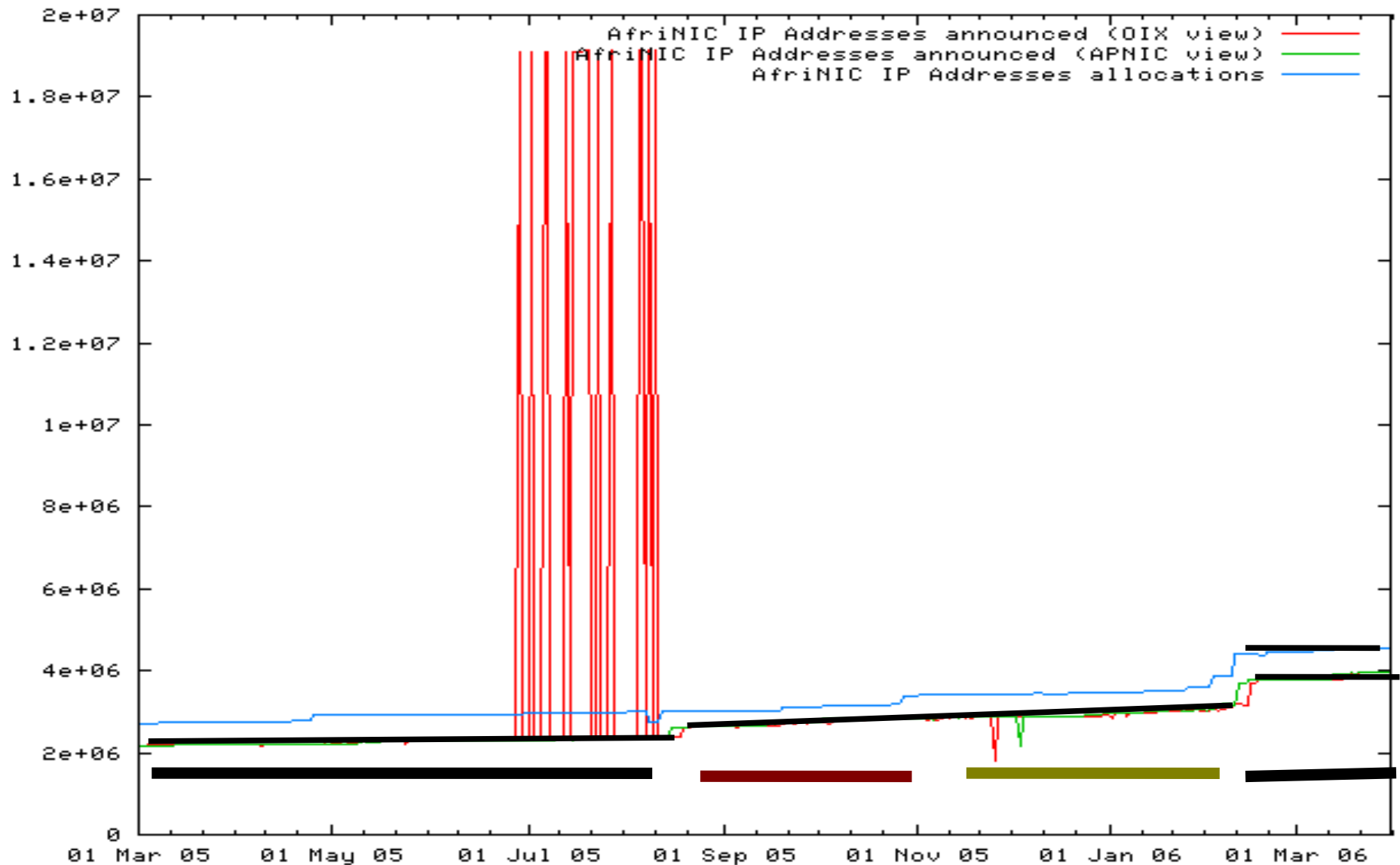


AfriNIC Service Region

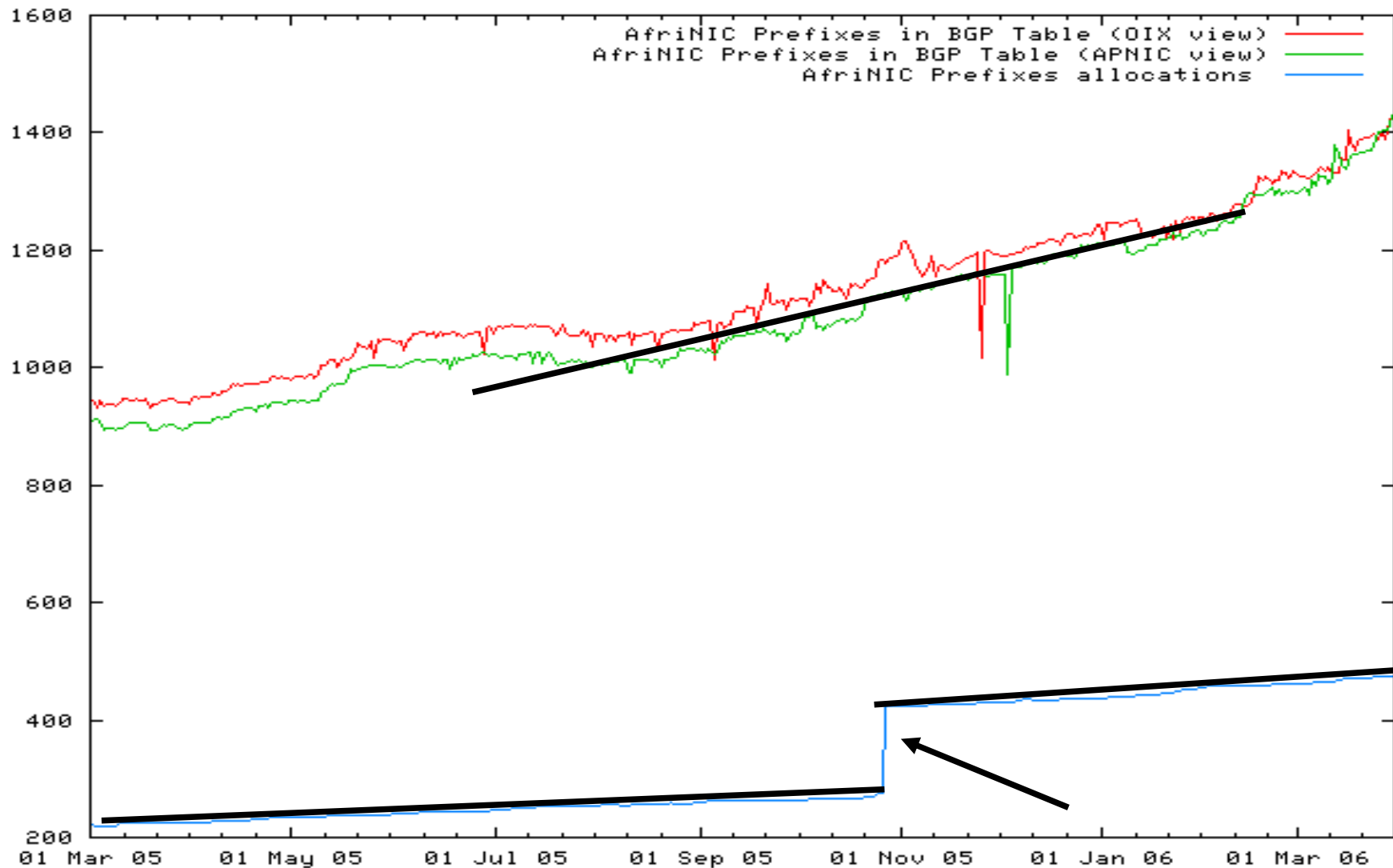
NUMBER OF addresses allocation from AfriNIC prefixes(41/8, 10/0)



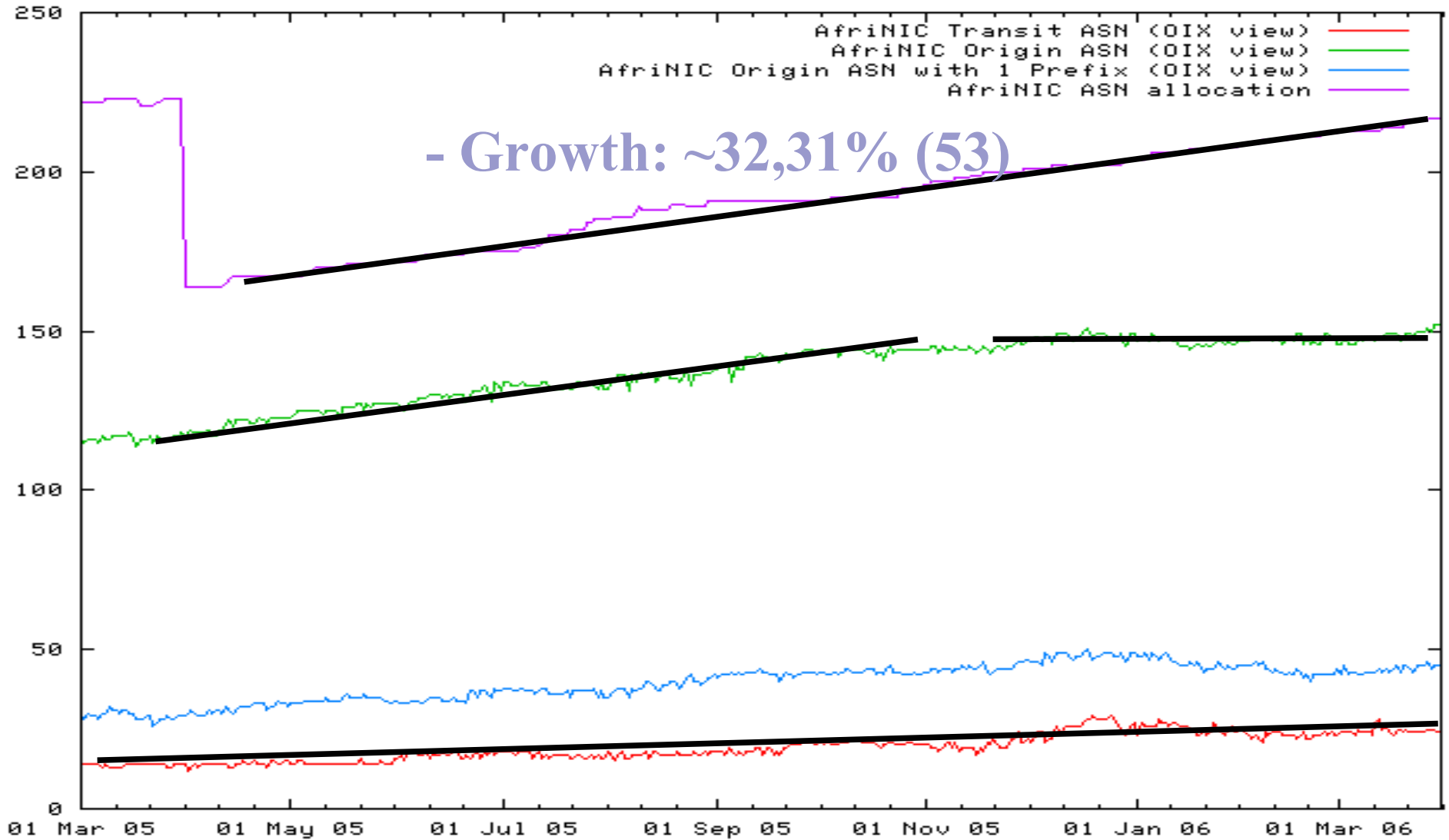
Number of AfriNIC addresses announced to Internet vs Addresses allocated



Prefixes from AfriNIC Region Addresses announced vs Prefixes allocated



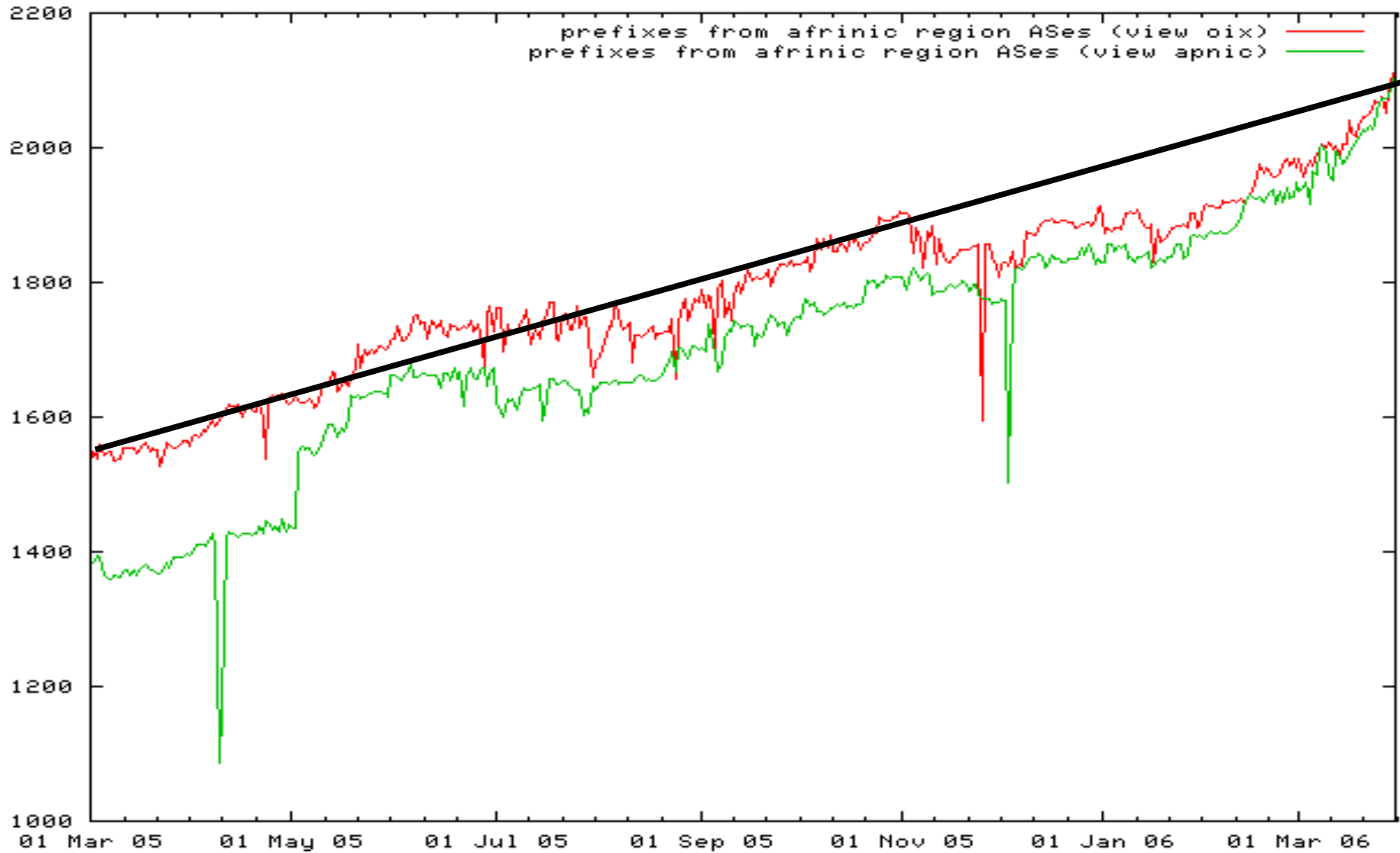
AfriNIC ASN in the routing table vs ASN allocation (OIX view)



- Growth transit AS: ~64,28% (9)

Prefixes from AfrinIC Region

ASes



Men at work !!!

- To fully automate the process
- To have a web site for the report
- To add IPv6
- Etc....

To view what we have done:

- <http://196.201.83.159/index.php>

-look for Internet resources allocation in AfriNIC service region



what does it means? suspect fraud?

welcome AfriNIC service region routing report

[English](#) | [Français](#)

[List all IPv4 prefixes](#) | [List all IPv6 prefixes](#) | [List all ASN](#)

[List countries according to the number of IPv4 prefixes](#) | [List countries according to the number of IPv6 prefixes](#) | [List countries according to the number of ASN](#)

[List of IPv4 prefixes received by a country](#) | [List of IPv6 prefixes received by a country](#) | [List of ASN received by a country](#)

Summary

[List of ASN in a period](#) | [List of IPv4 prefixes in a period](#) | [List of IPv6 prefixes in a period](#)

List of IPv4 prefixes in a period

FROM 2005-04-08 TO 2006-04-08

	RIR	COUNTRY	VALUE	NUMBER	ALLOCATION DATE	STATUS
1	afrinic	TANZANIA, UNITED REPUBLIC OF	196.1.52.0	1024	2005-04-12	allocated
2	afrinic	MALAWI	196.216.8.0	2048	2005-04-18	allocated
3	afrinic	SUDAN	196.1.192.0	16384	2005-04-18	allocated
4	afrinic	ANGOLA	196.202.252.0	1024	2005-04-19	allocated

Thanks

Thanks to :

- Philip Smith for providing APNIC view and helping with BGP data processing

- Routeview project team

- AfrINIC team

..... and you for listening to me

Question ?