

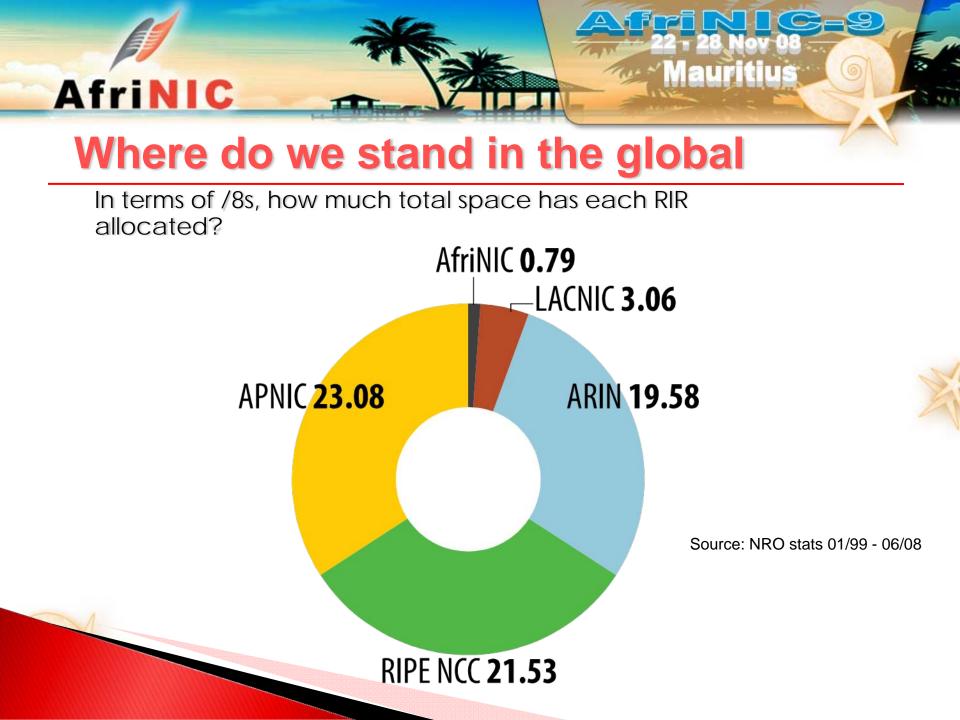
## IPv4 exhaustion The Situation in Africa

## AfriNIC-9

#### Mauritius, 27th November 2008

Alain Patrick AINA aalain@afrinic.net

Spearheading Internet technology and policy development in the



## **AfriNIC IPv4 pool**

## 41/8

AfriNIC

- Minimum allocation /22
- 196/8
  - - Legacy space
  - - Not actively used
  - - Minimum assignment /24

197/8

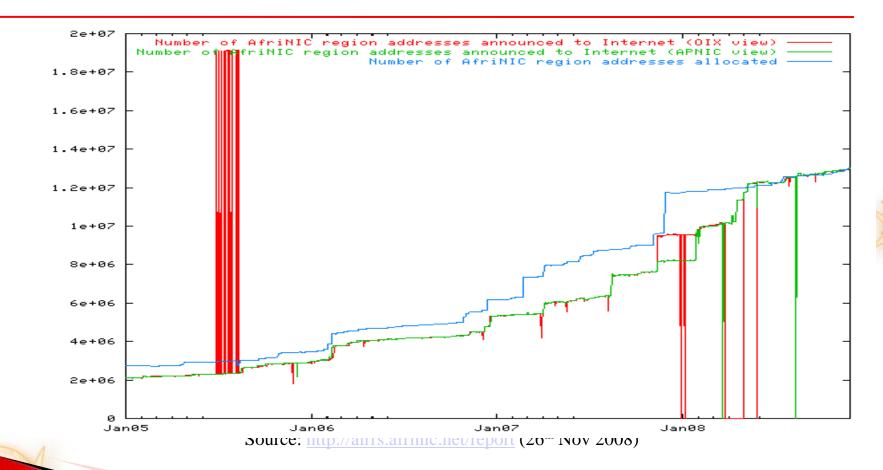
- Allocated by IANA 2008-10
- <u>http://www.afrinic.net/Registration/resources.htm</u>
- http://www.afrinic.net/statistics/index.htm



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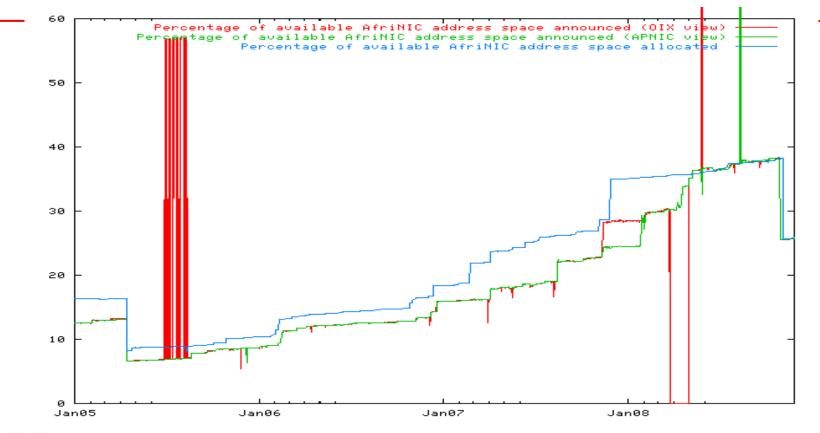


#### Allocation vs routing(1)



### Allocation vs routing(2)

AfriNIC



Source: http://airrs.afrinic.net/report (26th Nov 2008)

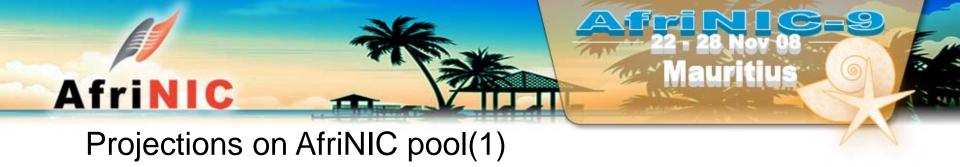
## **IPv4 lifetime Projections**

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 "Using the current allocation statistics, the Internet would exhaust the IPv4 address space between 2005 and 2011"
ALE projections (RFC 1752 - 01/1995)

## Projected IANA Unallocated Address Pool Exhaustion: 29 Nov 2010

http://www.potaroo.net/tools/ipv4/( 26-Nov-2008 07:58 UTC+1000)

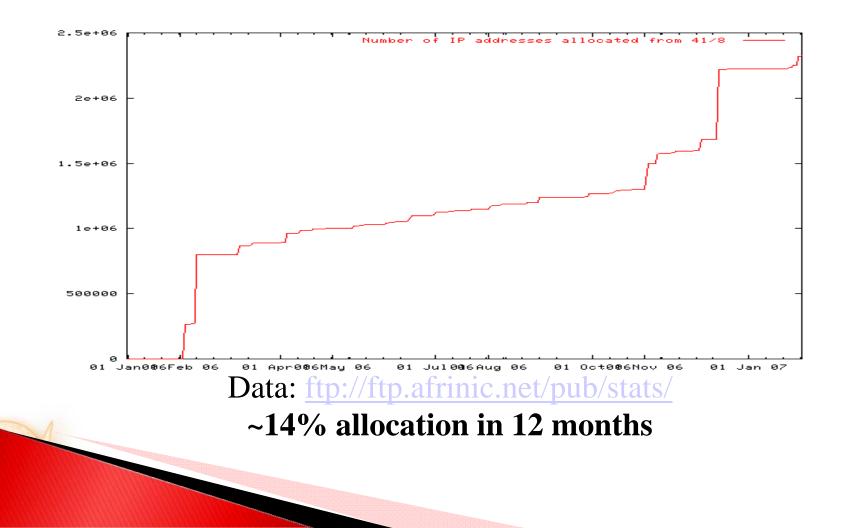


- We used one year(02/01/06 to 02/01/07) allocation statistics for the 41/8
- Apply an exponential model with instantaneous growth rate of 0.29% based on the current consumption rate
- We projected the date for AfriNIC pool exhaustion according to IANA's pool

-Analysis done in 04/07

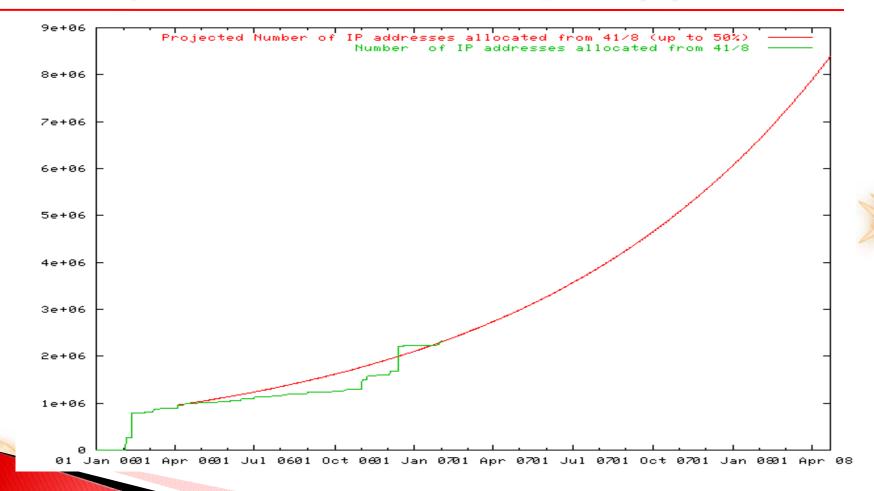


#### Projections on AfriNIC pool(2)



## **Projections on AfriNIC pool(3)**

AfriNIC



## **Projections on AfriNIC pool(4)**

AfriNIC

- IANA pool exhaustion before July 2011
- AfriNIC pool exhaustion by 11 August 2011

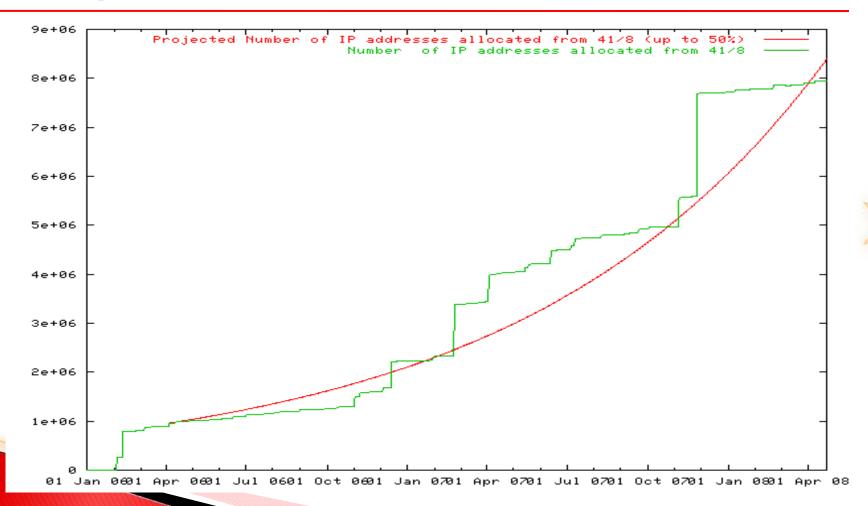


http://www.afrinic.net/news/ipv4\_exhaustion.htm

Projections and possible actions and solutions

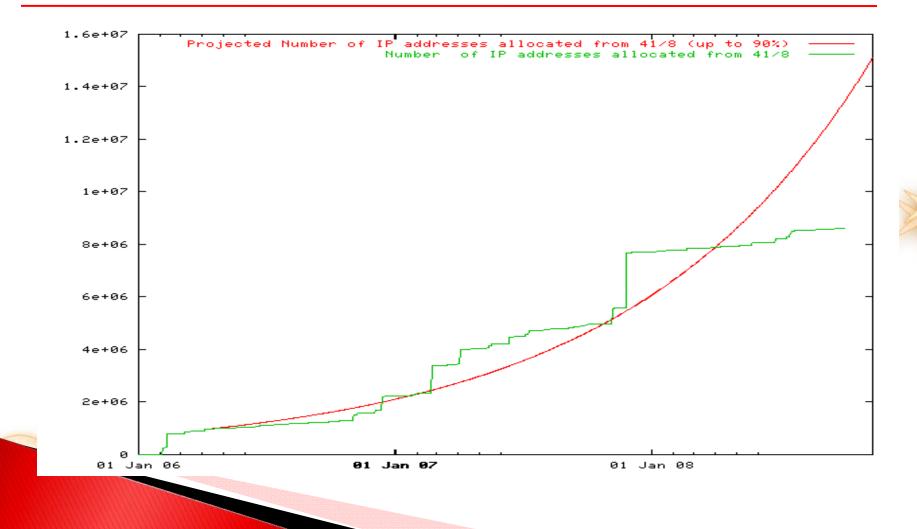
## Update on the situation(1)

AfriNIC



## Update on the situation(2)

AfriNIC



## Update on the situation(3)

## What happened since 04/2007?

AfriNIC

- AfriNIC requested an received one /8 in October 2008
- Likely the last one to get through the current policy
- Global Policy for the Allocation of the Remaining IPv4 Address Space adopted.
  - A /8 will be added to the pool

The pool will last more than previously predicted.

We need to predict the new pool exhaustion date

# AfriNIC Thank you for attention



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