



- IPv6 in Africa -

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Challenges

Initiatives to overcome some of the challenges

Achievement

Way forward

Conclusion

Few challenges for IPv6 in Africa

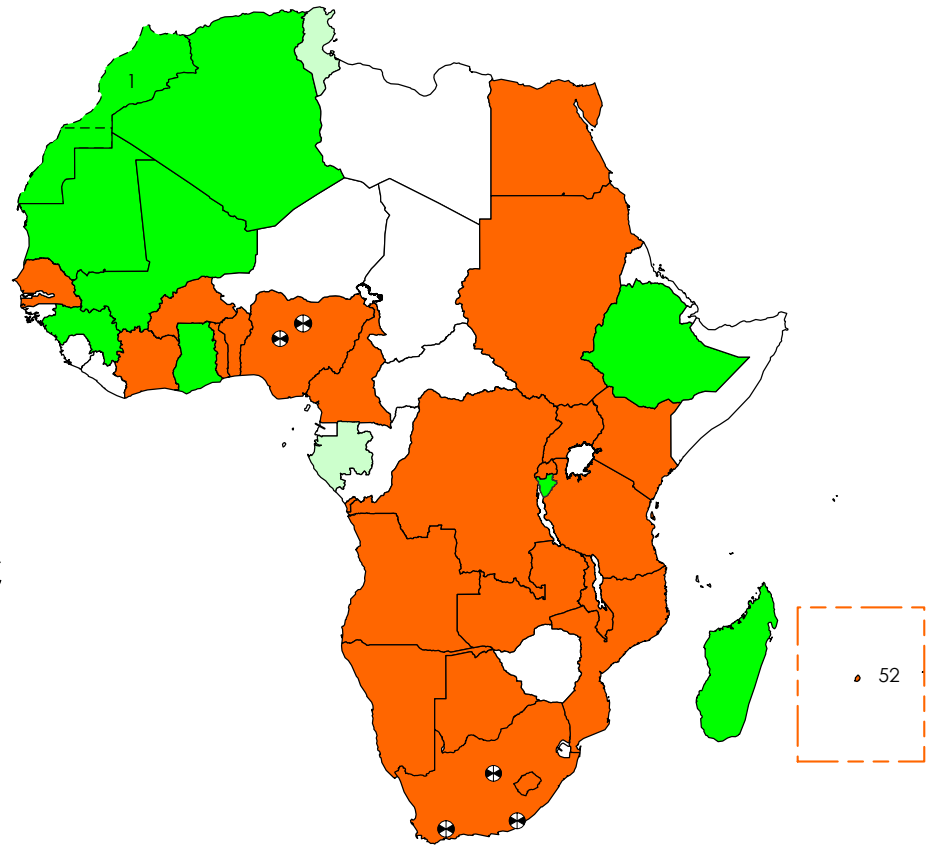
- IPv6 adoption is an important challenge worldwide but more importantly in our region:
 - Lack of demand from the users (Global issues)
 - Lack of customer oriented applications (Global Issues)
 - Perception of huge costs linked to migration
 - Lack of awareness on IPv6 development worldwide
 - Passiveness regarding IP issues in our community
 - People are still struggling to properly deploy IPv4 Networks
 - Too extensive usage of NAT in the region
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Few Initiatives

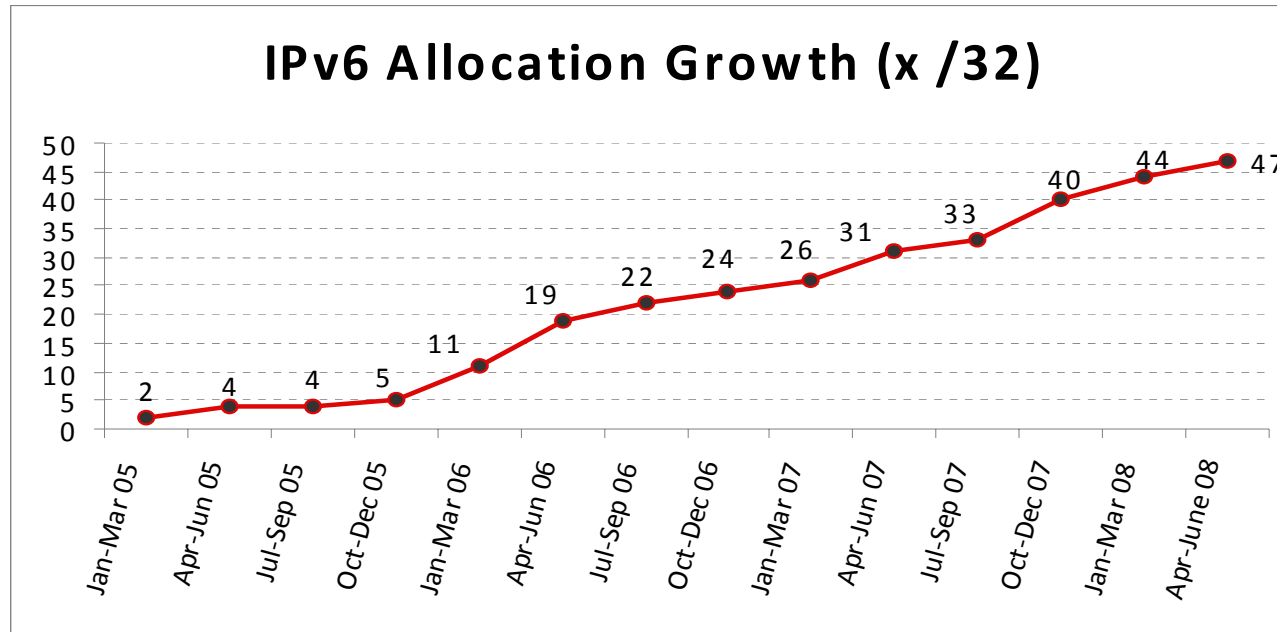
- During AfriNIC-2 meeting in Maputo (2005) our members expressed the need for awareness on IPv6
 - afripv6 initiative launched in May 2005 with the setup of a working group and a mailing list (afripv6@afriNIC.net)
 - A policy proposal to ease IPv6 allocation in our region has been proposed and adopted by the community in 2006.
 - No need to justify 200 end-users allocation to get IPv6 addresses.
 - Waived any additional fee for IPv6 allocations.
 - Integrate 'IPv6 Introduction' into AfriNIC LIR training.
 - End User assignment Policy proposed and adopted in 2007
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Few Initiatives (cont')

- We have identified in 2005 that training is one of the key factors that will support IPv6 deployment.
 - More than 25 trainings conducted in different countries throughout Africa (1-3 day events)
 - Annual AfrIPv6 meeting back-to-back with AfrINIC Spring meetings (December 2005, Nov'2006, Sept'2007, Nov'2008)



Result: IPv6 allocation growth



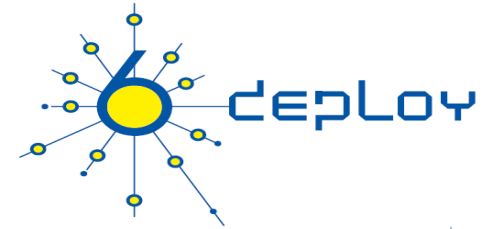
From these allocations, only 42% are announced and visible in the global routing table.

There is a clear need for further assistance to deploy.
This is where we see the necessity for the 6Deploy project

Afripv6 (a.k.a 6Mandela)

- As requested by the community in Maputo, the project aims to create an environment which favors smooth transition to IPv6 in Africa through:
 - Creation of an environment which allows exchange within IPv6 initiatives throughout the Continent.
 - Creation of an IPv6 Forum for Africa.
 - Creation of an IPv6 ready platform to offer v6 support to the community (IPV6 ready at IXP to offer tunnels).
 - Bringing major African connectivity/content providers to the game by encouraging them to provide v6 ready solutions.
 - Developing a case study documentation for the use of African operators (based on local experiences).
 - Conducting IPv6 Training across the Continent.
 - Providing Lab and Internships to Engineers to play live with IPv6
 - Supporting research based on IPv6 and Mobile Infrastructure

6deploy & AfriNIC



- Through the 6Deploy initiative we expect to:
 - Do more training in 2008 and 2009.
 - Build an e-learning platform easily available for the community.
 - Contribute to the development of best practices with specificity that are from our environment.
 - Provide deployment support to Operators in our region through helpdesk and setup of a virtual lab accessible from everywhere for training and tests.
 - Raise awareness among policy makers.
 - Strengthen support and collaboration with Academic community on IPv6 research and training (AfriNIC already have an MoU with AAU on that)

Conclusion

- IPv6 is an opportunity for Africa (innovation and sustainable growth)
- With 6Deploy we are expecting to bring this campaign to another level and create an environment for an exchange of information, training, and for sharing best practices.

We would like to thank the European Commission for its support to the project and hope this support will go beyond 6Deploy and also encourage local research and application development in our region, which presents one of the biggest growth opportunities today in the telecommunication area (particularly mobile).

- Having its own Regional Internet Registry, Africa now has the opportunity to define their own policies and plans that will help IPv6 adoption to support a sustainable Internet growth on the continent.
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Afrinic
The Internet Numbers Registry for Africa



Thank

you!