



AfriNIC

The Internet Numbers Registry for Africa

AfriNIC & IPv6

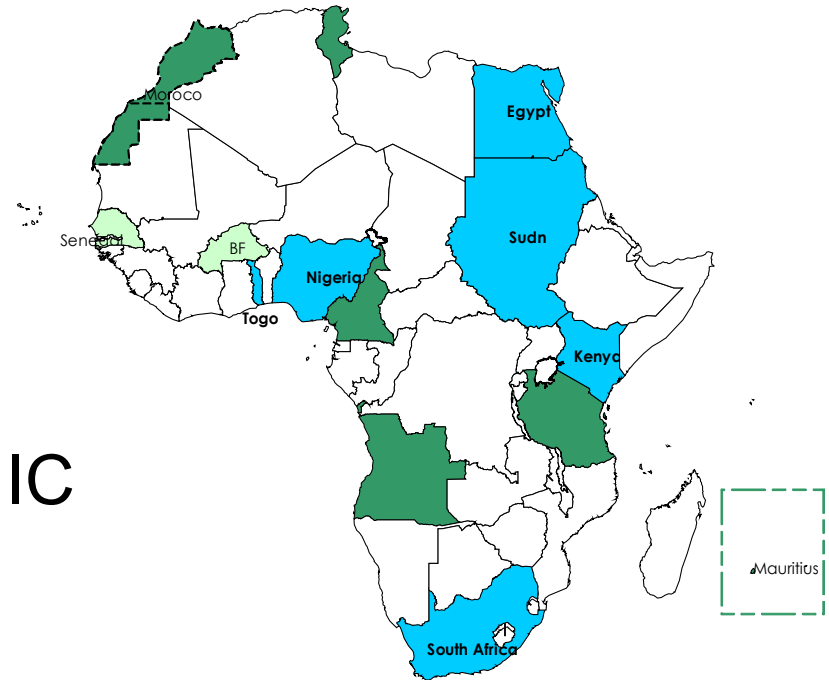
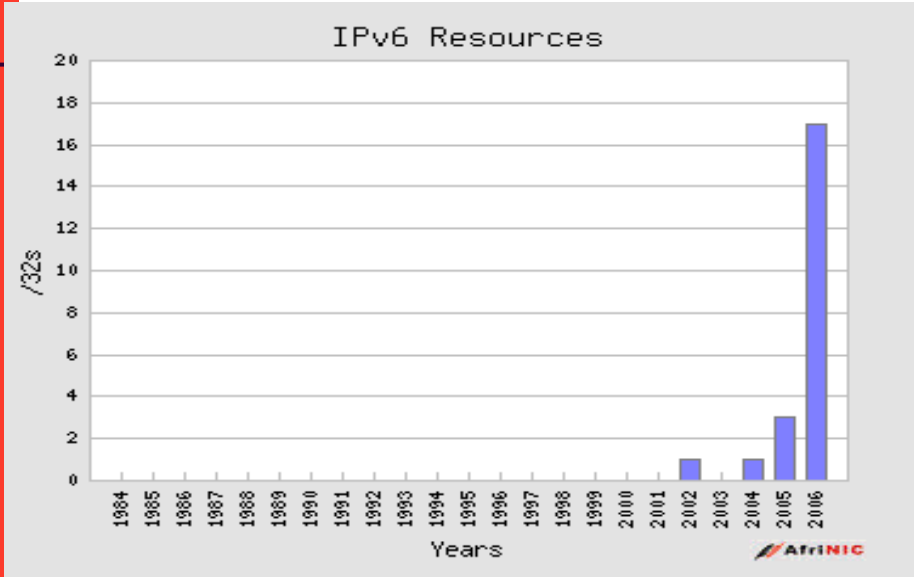
IPv6 adoption a challenge for Africa

- IPv6 adoption is an important challenge worldwide but more important in our region:
 - Lack of demand from end-users (Global issues)
 - Lack of customer oriented applications (Global Issues)
 - Perception of huge cost linked to migration
 - Lack of awareness on IPv6 development worldwide.
 - Usual passiveness of our community
 - Allocation policies inappropriate (Partly solved by AfriNIC v6 allocation policy)
 - People are still straggling to deploy meaningful IPv4 Networks
 - Too extensive usage of NAT in the region

AfriNIC and IPv6

- During AfriNIC-2 meeting in Maputo our members expressed the need for more awareness on IPv6 by AfriNIC.
- afripv6 initiative lunched in May 2005
- A policy proposal to ease IPv6 allocation in our region has been proposed and adopted by the community.
 - No need to justify 200 end-users assignments to get IPv6 addresses.
 - Waived any additional fee for IPv6 allocations.
 - Integrate 'IPv6 Introduction' into AfriNIC LIR training.

IPv6



- 23 IPv6 Allocations in Afrinic region (17 for 2006 only)

awareness program (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 allow exchange within IPv6 initiatives around the continent through a mailing list (afriipv6@afriNIC.net).***
 - ***Creation of an IPv6 Forum for Africa***
 - ***Creation of an IPv6 ready platform to offer v6 support to the community.***
 - ***Bring major African connectivity provider in the game by encouraging them to provide v6 ready access.***
 - ***Develop a case study documentation for the use of African operators.***
 - ***Conduct IPv6 Training across the continent***
 - ***Work with University and Education Network to involve them in research on IPv6 and deployment on Campus and Research Networks***

IPv6 allocation policy in AfrinIC

- Case 1:
 - Already established LIRs: No additional cost for IPv6 requests.
 - Send an IPv6 allocation template from:
<http://www.afrinic.net/forms/affrm-v6fst200501.htm>
 - Hostmaster evaluate the request according to the policy and make the allocation.
- Case 2:
 - New LIR requesting IPv6 only: Same process as IPv4 allocation process
 - Fees associated with this category of LIR is still under discussion.

IPv6 allocation policy in AfriNIC

- For allocation size, AfriNIC follows the same principle as recommended by the IAB and the IESG in the RFC 3177.
 - /32 to LIR
 - /48 to end-users (by LIRs)
- Newly adopted global policy (/12 for each RIR)
 - AfriNIC got the 20c0::/12 from IANA two weeks ago
- **Assignment to End Users?**

Ongoing discussion on IPv6 Policy

- **IPv6 assignment to End Users**
 - Assignment to Critical Infrastructure (ccTLDs, Root)
 - Assignment to End User Infrastructure
 - Debate:
 - Size of the assignment: /32, /48?
- **HD ratio review (proposal)**
 - Proposal to increase the HD ratio from 0.80 to 0.90
- **Call for comment on Multi-homing Solutions**
 - CIDR, Geographic, Community based ...
 - <http://www.nro.net/documents/nro42.html>

Conclusion

- Africa now has the opportunity having its own Regional Internet Registry to define a policy which will help IPv6 adoption grow on the continent.
 - Afrinic will continue to promote IPv6 through different training and project .
 - We need more participation from the community in our policy process now so that we have in place policies which favor the IPv6 usage in Africa.
 - Operators need to work together to share experience and best practices for transition to IPv6.
 - Governments and policy makers to IPv6 adoption as a strategic move for a stronger Africa presence in tomorrow network
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Thanks

- I will like to thank:
 - ConsullIntel
 - IPv6 forum
 - 6DISS
 - INTIF
 - CISCO

For their support to AfriNIC initiative and we hope to continue to have them with us for the next steps.

Next Public policy Meeting



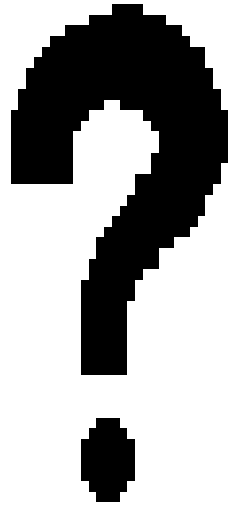
BACLAVA, MAURITIUS

27 November – 1 December 2006

- in conjunction with 2 days IPv6 hands-on training, IPv6 conference, AftLD and INET'Indian Ocean -

Real picture from the hotel where the meeting will take place.

Thank You



Questions ?
