

AFRINIC

The Internet Numbers Registry for Africa



• ORGANISATIONAL STRUCTURE

• MEMBERSHIP OVERVIEW

• REGISTRATION SERVICES

• TRAINING, EDUCATION AND CAPACITY BUILDING

• COOPERATION AND PROJECT DEVELOPMENT

• TECHNICAL SERVICES AND OPERATIONS

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AFRINIC ANNUAL REPORT 2013

AFRINIC - the Regional Internet Registry for Africa and the Indian Ocean

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From the Chair

I am pleased to introduce the 2013 AFRINIC Annual Report, outlining the activities carried out by the organisation during the year. I want to start off by thanking the AFRINIC community at large for their continued involvement and participation.

2013 was a challenging year for AFRINIC, having made reporting adjustments that found the organisation having to work itself out of a deficit for the first time in its history. I'm pleased to inform the community that although we had promised to recover in two years, we closed 2013 with a surplus, bouncing back from a deficit of \$263k to end the year with a surplus of \$69k.

The promised recovery is under way with stringent measures put in place especially on the area of collections. Some members have started to feel this and I ask all members to help us by paying up their dues in time.

On the governance front, our bottom-up process continues to offer a feedback loop from the community that is helping shape the new AFRINIC in a dynamic, fast changing environment. The new Bylaws were enacted and the first Annual General Members Meeting (AGMM) was held in Lusaka, Zambia. The event was a landmark change in our outreach process and proved to meet all of our expectations with record attendance.

To further strengthen the AFRINIC structure, the Council of Elders came into play and, as Chair, I must say it is nice to have a back up system to bounce ideas on and to seek guidance from. They have been a valuable resource in 2013. The new Bylaws also introduced a number of other changes, such as non-regional seats, electronic voting, among the many changes made through the consultative process to enhance our relevance and service to the region.



Badru Ntege,
Chair of the Board of Directors

Looking Ahead

As we move into 2014 our plan will be fully committed on execution. Though the global landscape remains challenging, with a number of shocking revelations that led to the Montevideo Statement, which will definitely dominate the governance debate for 2014. On the financial discipline side, our progress will become increasingly visible to our members and our infrastructure developments will drive delivered value and tangible benefits for all our members. And, IPv6 remains a key mission for AFRINIC.

We are confident that these changes will deliver a more valuable organisation. Delivering and executing in a fast changing environment requires hard work, perseverance and most of all commitment. I am always impressed by the efforts of our employees and Board members and I thank them sincerely for their contribution this year.

A handwritten signature in black ink, appearing to be 'BN' or similar, enclosed within a circular flourish.

Badru Ntege
Chair of the Board of Directors

From the CEO

After a particularly intense year for AFRINIC in 2012, I am pleased to report that we closed 2013 with a surplus. Not only did we implement strenuous cost control measures, which helped to lower our overall operating costs, we also had the largest membership growth since 2006, building upon the organisation's continuous growth since inception.

Structure and Governance

2013 also saw changes to the organisation's Bylaws, which completed the AFRINIC 2.0 process initiated in 2012 and which started with the organisational restructuring. Key changes in 2013 included the establishment of a yearly formal Annual General Members Meeting (AGMM), the first of which was held in Lusaka, Zambia, the formation of a Council of Elders and the facilitation of e-voting during AGMM elections. I'd like to give a warm welcome to the new faces on our Board of Directors and to the newly formed Council of Elders. I look forward to working with you all over the course of the year.

Internet Number Resource Allocation

Although we allocated slightly less IPv4 address space overall to our members in 2013 than in 2012, four of the world's ten largest IPv4 allocations of the year were given to nations in our service region: Algeria, Egypt, Nigeria and the Seychelles. As the global supply of available IPv4 space continues to dwindle, we expect this trend of large, justified allocations to increase throughout 2014 and our Members Services team is preparing for the expected increased workload.

The increasing size of the IPv4 allocations we are distributing indicates that the region's networks and services are expanding to accommodate Africa's



Adiel A. Akplogan
CEO, AFRINIC

emerging users and growing ICT industry. However, through our capacity building activities, we continue to spread the message that our region is still far from having full IPv6 coverage and that all stakeholders to deploy IPv6 on their networks, to ensure devices are IPv6 enabled and that content is available over IPv6: this is the only way we can safeguard future users free and global access. To further fortify our IPv6 messaging, updates were made to our 2013 IPv6 courses, and we've seen an increase in demand for training from engineers as well as from government representatives and business leaders.

Member Services

Several improvements were also made to our Member Services processes and Billing processes, which enabled the teams to provide enhanced support to members' requests and deal with tickets more efficiently. Further, at the request of the community, we began to publish ticketing statistics to further increase our transparency and information flow.

Capacity Building and Community Outreach

Our capacity building efforts continued in line with our mission to strengthen the region's infrastructure, reliability and stability through various programmes, the facilitation of workshops, sponsorship and donation, Memorandums of Understanding (MoUs), and the provision of equipment and test networks. The first Africa Internet Summit (AIS) was also held, organised jointly by AFRINIC and AfNOG, and I am pleased to report that it was a huge success and will become an annual event. Future AIS meetings will enable us to reach a wider audience, interact more with our community and facilitate a platform for knowledge share.

FIRE Africa

2013 saw our flagship developmental programme, the Fund for Internet Research and Education (FIRE), hit the ground running. Together with the programme's donors and sponsors, AFRINIC pledged a total of US\$ 138,000 in FIRE grants, awards and travel funding to projects that aim to change people's lives through ICT. FIRE also provided funding and assistance to project leaders to attend relevant events to present their concepts and gain knowledge and experience, and offered free training courses and workshops throughout the region.

Internet Governance

2013 was also a year where Internet governance was high on everyone's agenda due, in part, to the NSA revelations and security concerns which dominated discussions at the global and regional IGFs. The "Montevideo Statement on the Future of Internet

Cooperation", issued by the RIRs and other Internet technical coordinating bodies in October, was a key milestone in the evolution of Internet governance. The statement called for the involvement of all stakeholders and for open and inclusive discussion in deciding on the future of the Internet.

It is crucial that the interests of the African and Indian Ocean nations are represented at all levels of Internet governance. AFRINIC attended local, regional and global events and forums and participated in open dialogue with governments throughout the year to ensure that the region's unique needs are represented. As the discussions and processes evolve, AFRINIC will be involved at every stage and will report regularly to the membership and community with any developments.

The Year Ahead

As we move forward into 2014, we are focused on preparation for the global exhaustion of the free IPv4 pool. At a certain point in 2014, we expect AFRINIC to become the only RIR where, with correct justification, large blocks of IPv4 space are available. We anticipate that this will bring global scrutiny of all RIR processes and community-driven policies. AFRINIC has been preparing for this situation for the last few years and will continue to ensure that our structure, services, processes and infrastructure are ready to deliver the best possible value to our members and the wider community as the Internet landscape enters a new era.

Further, we will continue to ramp up our capacity building efforts to ensure that the foundations are laid for a robust, stable, secure, IPv6-based future Internet for Africa.

Finally, I would like to thank our members, the AFRINIC community, the Board of Directors, the Council of Elders and the AFRINIC staff for all their efforts and support throughout 2013 and welcome our collaboration throughout 2014 and beyond.



Adiel A. Akplogan
CEO, AFRINIC

About AFRINIC

The African Network Information Centre (AFRINIC) is the Regional Internet Registry (RIR) for Africa. It is responsible for the distribution and management of Internet number resources (IPv4 and IPv6 addresses) and ASN (Autonomous System Numbers) for the African and Indian Ocean region. It was founded in 2004.

A non-governmental, not-for-profit, membership-based organisation headquartered in Mauritius, AFRINIC's role is to promote the fair distribution and responsible management of Internet Protocol (IP) addresses and Autonomous System Numbers (ASN).

The policies governing the distribution of Internet

number resources by AFRINIC are defined by the AFRINIC community using a bottom-up, community-driven policy development process. The Board of Directors then ratifies these policies.

AFRINIC provides services to its members, mostly Internet Service Providers (ISPs), governments, educational institutions and end-users, within its geographical service region, which covers the African continent and Indian Ocean.

AFRINIC also plays a leading role in education and capacity building as well as in IP infrastructure development and reinforcement throughout the region.

Service Region

AFRINIC serves 56 economies throughout Africa and the Indian Ocean. The service region is divided into six sub-regions:



Activities and Function

AFRINIC's core activity is to assign and allocate Internet number resources (IPv4, IPv6 and ASNs) to its members and provides related services, including RPKI and managing the Reverse DNS (RDNS) zones for the Internet number resources it allocates and assigns.

In addition to its core function, AFRINIC:

- Provides training and education services to its members, governments and the wider community to support capacity building and infrastructure development throughout the region
- Collaborates with regional and international organisations on Internet related matters to ensure the needs of the region are taken into account
- Promotes and supports an open, stable, secure and resilient Internet through technologies and projects including RPKI, DNSSEC, Anycast usage, local Internet Exchange Point (IXP) set up and deployment of root server copies throughout Africa

Mission, Vision and Values

Vision

Spearheading Internet technology and policy development in the African region.

Mission

To serve the African community by providing professional and efficient management of Internet number resources, supporting Internet technology usage and development, and promoting a participatory and multi-stakeholder approach to Internet self-governance.

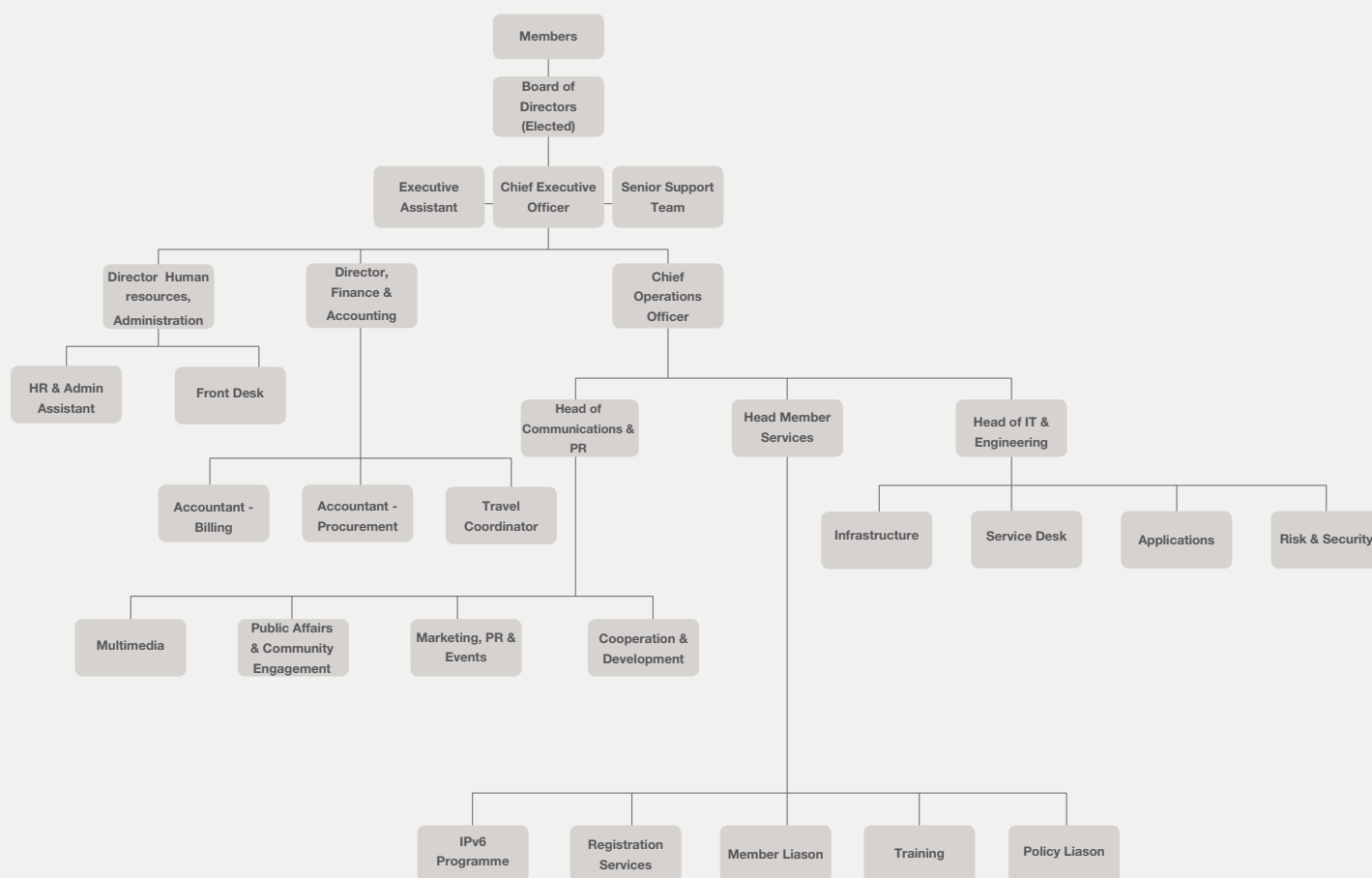
Values

- We operate with transparency, professionalism and efficiency
- We recognise and value individual contribution and teamwork
- We recognise cultural and language diversity in our region
- We are a technology-driven organisation that encourages continuous learning and innovation
- We are committed to integrity in all that we do, always and everywhere
- We value collaboration and cooperation with related organisations.

Organisational Structure and Corporate Governance

AFRINIC's activities are overseen by a Board of Directors (BoD) and managed by an appointed Chief Executive Officer. The BoD is supported by the Council of Elders, which performs an advisory function. AFRINIC is governed by a set of bylaws developed and approved by the community.

Organisational Structure



AFRINIC Staff

AFRINIC's staff perform the administrative and technical functions associated with a Regional Internet Registry (RIR). At year-end 2013, AFRINIC had 40 staff in employment from 13 countries. More details about AFRINIC's human resources activities in 2013 can be found on page 36.

Bylaws

AFRINIC is governed by a set of bylaws that are developed and adopted by the AFRINIC membership. In 2013, the following amended bylaws were discussed by the community and adopted by the membership:

- The composition of the Board of Directors,
- New Membership categories, the implementation of
- Council of Elders (see page 11)
- Mechanism for e-voting
- General Assembly for Members during AFRINIC's Annual Meeting.
- II. consider broad Internet policy issues in order to ensure that the policies and strategies of the company fully respond to the changing Internet environment;
- III. determine a financial budget for the activities of the Company for a given period;
- IV. establish a ceiling for expenditures for a given period and from time to time to vary such ceiling as they deem fit;
- V. fill any casual vacancy in the office of the auditor of the Company;
- VI. provide any general directives to the Chief Executive Officer regarding the staffing of the Company;
- VII. determine the conditions of employment of the employees of the Company who are employed at an Executive level;
- VIII. reduce or waive fees payable by any person to the Company, or to amend in any manner whatsoever the conditions relating to the payment thereof;
- IX. appoint or remove the secretary of the Company and to determine the remuneration payable to such secretary; and
- X. appoint such committees for such reasons and with such terms of reference as they shall consider necessary or desirable.

The current AFRINIC bylaws can be found at:
<http://afrinic.net/en/about-us/bylaws>

Board of Directors

The BoD is elected by AFRINIC members on a regional representation basis as defined by Article 13 of the bylaws. Once appointed to the BoD, each director represents and works for the whole region and not just for the sub-region seat they were elected into. The BoD responsibilities as outlined in Article 15 of the bylaws are to:

- I. determine the guidelines for the allocation of address space for Members;

The 2013 Primary BOD Members were:

Name	Country	Region	From	To
Badru Ntege (Chair)	Uganda	Eastern Africa	2012-07	2015-06
Sunday Folayan (Vice Chair)	Nigeria	Western Africa	2013-07	2016-06
Lala Andrianamampianina	Madagascar	Indian Ocean	2011-07	2014-06
Haitham Z. El Nakhal	Egypt	Northern Africa	2013-07	2016-06
Janvier Ngnoulaye	Cameroon	Central Africa	2011-07	2014-06
Paulos Nyirenda	Malawi	Southern Africa	2012-07	2015-06
Aminata A. Garba	Niger	Non-Regional/ Geographical	2013-07	2016-06
Adiel Akplogan - Appointed CEO of AFRINIC	-	-	-	-

The 2013 Alternate BOD Members were:

Name	Country	Region	From	To
Christian Bope	Congo, Democratic Republic	Central Africa	2011-06	2014-05
Krishna Seeburn	Mauritius	Indian Ocean	2011-06	2014-05
Mark Elkins	South Africa	Southern Africa	2012-07	2015-06
John Walubengo	Kenya	Eastern Africa	2012-07	2015-06

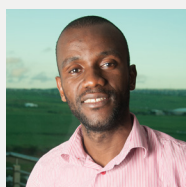
More information about the BoD can be found at:
<http://afrinic.net/en/about-us/our-structure/bod>



Paulos Nyirenda



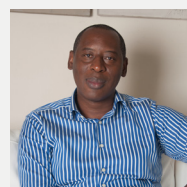
Lala Andrianampianina



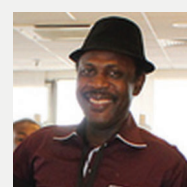
Christian Bope



Janvier Ngnoulaye



Badru Ntege



Sunday Folayan



Mark Elkins



Krishna Seeburn



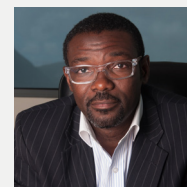
John Walubengo



Aminata Garba



Haitham Z. El Nakhal



Adiel Akplogan
AFRINIC CEO

Three sub-committees, the Audit Committee, the Finance Committee and the Remunerations and Compensation Committees, are appointed by the AFRINIC Board to provide support on audit, finance and remunerations and compensation matters. These committees are composed of Board members.

Audit Committee	Finance Committee	Remunerations and Compensations
1. Paulos Nyirenda (Chair)	1. Badru Ntege (Chair)	1. LaLa Andrianampianina (Chair)
2. Sunday Folayan	2. Mark Elkins	2. Hytham El Nakhal
3. Janvier Ngnoulaye	3. Aminata Amadou Garba	3. Christian Bope Dominlongo
4. John Walubengo	4. Adiel Akplogan (CEO)	4. Adiel A. Akplogan
5. Kris Seeburn		

NomCom 2013 Members

Mark. J. Elkins - South Africa

Tim McGuinness - Uganda

Pierre Dandjinou - Benin Republic

Douglas Onyango - Nigeria

Appointed by the AFRINIC Board, the nomination committee (NomCom) evaluates and selects appropriate candidates for the available seats for all AFRINIC elections

2013 Board of Directors' Elections

The 2013 BoD elections were held during the AFRINIC General Members' Meeting which took place at the Intercontinental Hotel Lusaka, Zambia on Friday 21 June 2013 during the AFRINIC- 18 Meeting.

- Mr. Badru Ntege was reappointed as Chair of the Board for the period July 2013 - June-2014
- Sunday Folayan was appointed as Vice-Chair for the period July 2013 - June-2014
- Haitham Z. El Nakhal (Egypt) was elected from the Northern Africa region for a three year term
- Sunday Folayan (Nigeria) was elected from the Western Africa region for a three year term
- Aminata A. Garba (Niger) into the Non-Regional/ Geographical seat for a three year term

Resolutions

In 2013, the Board adopted the following resolutions:

- Resolutions 201308.178 and 201308.179: appointment of new Chair and Vice Chair. Mr. Badru Ntege was reappointed as Chair of the Board for the period July 2013 - June-2014. Sunday Folayan was appointed as Vice-Chair for the period July 2013 - June-2014
- Resolution 201211.160: changes to bylaws. See page 12 for details
- Resolution 201304.173 Setting up and appointing representatives to the Council of Elders. See below

For a full list of resolutions adopted by the Board in 2013, please see:
http://afrinic.net/bod_r13

The Council of Elders

Article 16 of the AFRINIC bylaws enables the BoD to appoint up to six former AFRINIC BoD chairpersons to the AFRINIC Council of Elders. Those who are eligible for membership to the Council of Elders should have served for at least one full term as the Chair of the AFRINIC BoD. The Council of Elders performs an advisory role. The 2013 Council of Elders comprised of:

- Dr. Viv Padayatchy
- Mr Pierre Dandjinou
- Mrs Maimouna Diop
- Dr Nii Quaynor



Dr. Viv Padayatchy



Mr Pierre Dandjinou



Mrs Maimouna Diop



Dr Nii Quaynor

Annual General Members Meeting (AGMM)

The AGMM is held once a year, usually during an AFRINIC open policy meeting (see page 29). The AGMMs enable the membership to meet with the BoD, Council of Elders and CEO to discuss operational, financial and corporate governance issues. Elections for BoD seats and voting on proposed resolutions may also take place during the AGMMs.

2013 saw AFRINIC's first formal AGMM take place on 6 June 2013 in Lusaka, Zambia during the AFRINIC-19 Meeting. For the first time, members had the opportunity to vote online as well as in person or by proxy.

More details about the AGMM, including the minutes of 2013's AGMM can be found at: <http://afrinic.net/en/about-us/agmm>

Membership Overview

AFRINIC members are mostly Internet Service Providers (ISPs), governments, educational institutions, end-users and individuals with a demonstrated interest in Internet number resource management located within its service region. Most members receive address space from AFRINIC and then distribute it to their customers or use their allocations and assignments within their own networks.

Members:

- Can obtain Internet number resources (IPv4, IPv6 and ASNs) according to the principles outlined in community-developed policies
- Use related services including attending free training courses and access to an IPv6 test-bed
- Attend the Annual General Members' Meeting (AGMM) either in person or remotely, vote to accept corporate and financial documents, vote candidates into vacant seats on the Board of Directors and vote on resolutions

Membership categories:

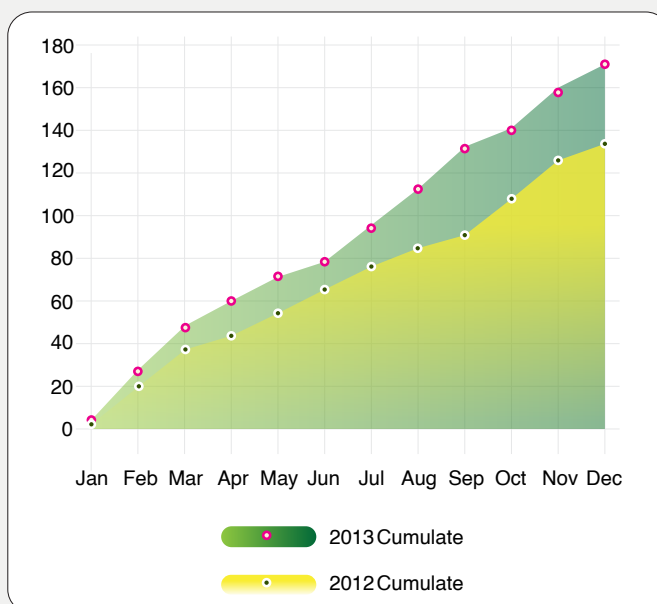
- Resource Members - Local Internet registry (LIR) or End Users (EU)
- Associate Members
- Registered Members

For more details about membership categories, please see:
<http://afrinic.net/en/about-us/our-members>

Key Membership Statistics 2013

168 new members signed up in 2013, 22% more than the 137 who signed up in 2012.

Number of New Members



Membership Growth 2013

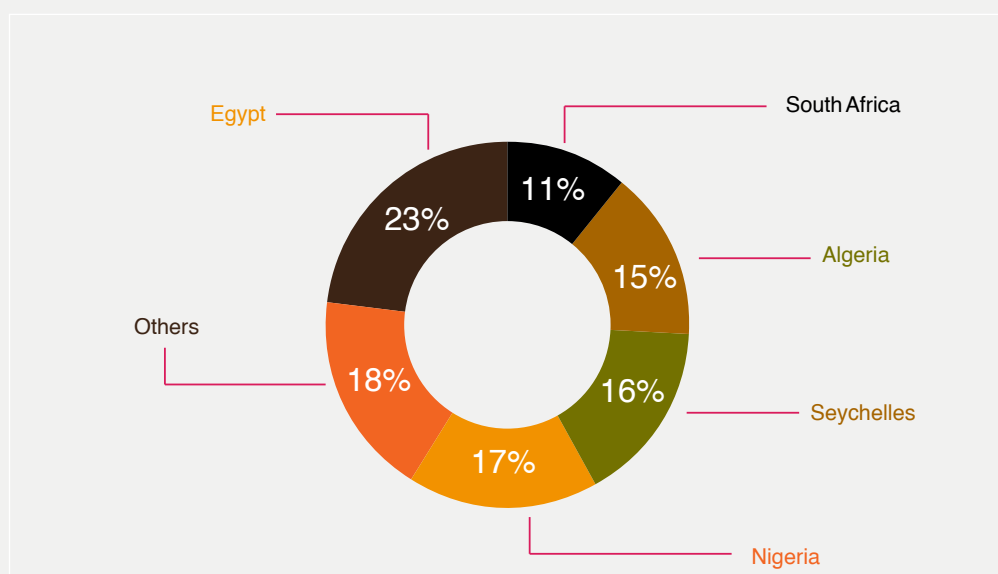
Overview of New Members Per Annum: 2006 – 2013

Year	2006	2007	2008	2009	2010	2011	2012	2013
New Members	250	84	77	87	123	113	137	168

New Membership by Category - 2013

Number of LIRs	119
Number of End Users	49
Number of Associate Members	00
Number of Registered Members	12
Number of the new Members not in good standing	00

Percentage of Members per Country 2013



For more information about how to become a member, membership categories and associated fees, please see:
<http://afrinic.net/en/services/rs>

Registration Services

As the Regional Internet Registry for Africa, the allocation and assignment of Internet number resources (IPv4, IPv6 and Autonomous System Numbers - ASNs) according to community developed policies is AFRINIC's core activity. Reverse delegations are also registered and made publicly available through AFRINIC's WHOIS Database.

The Registration Services team handles all aspects of AFRINIC membership and is also responsible for providing support to members and the community at large for technical matters related to the RIR function.

Find out more about Registration Services online at:
<https://my.afrinic.net/registration>

Registration Services Key Statistics 2013

Four-year Overview

	2010	2011	2012	2013
New Members:	123	113	137	168
IPv4 addresses allocated	8,451,328	9,160,704	7,943,680	6,844,672
IPv6 /48 prefixes allocated	6,553,601	10,092,839	275,447,865	4,390,912
ASN assigned	146	132	147	170

IPv4

In 2013 a total of **6,881,280 IPv4 addresses** were allocated to members, representing a 13% decrease compared to 2012 when **7,943,680** IPv4 addresses were allocated. As of the end 2013, a total of 59.6 million IPv4 addresses (an equivalent of approximately 3.55 /8s) had been allocated to AFRINIC's members, up from 10 million since 2001.

Total Cumulative IPv4 Addresses Allocated in the AFRINIC service region: 2006 – 2013

Year	2006	2007	2008	2009	2010	2011	2012	2013
Total IPv4 allocated	13,922,816	19,454,720	21,006,848	26,917,376	35,368,704	44,529,408	52,473,088	59,354,368

The distribution of address space allocated in 2013 per economy saw Egypt take the largest amount, with 22% of the total, closely followed by Nigeria (17%), the Seychelles (16%), Algeria (15%), South Africa (11%). As of end of 2013, more than 50% of the space was allocated to economies in Northern and Southern Africa. There was also an increase in Internet number resources allocated to other countries in the region, which received 18% of the issued addresses.

IPv4 addresses issued in 2013 by country

Country	IPv4 addresses allocated
Egypt	1,574,400
Nigeria	1,194,496
Seychelles	1,094,656
Algeria	1,049,856
South Africa	771,072
Others	1,196,800

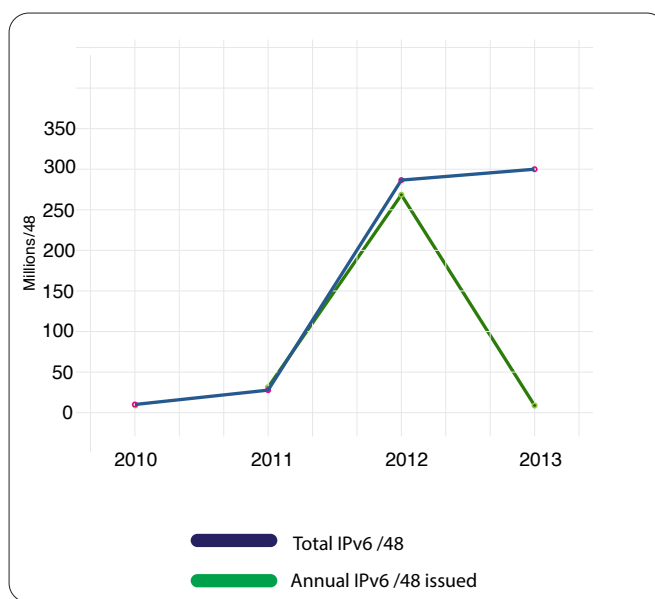
IPv6

In February 2011, the Internet Assigned Numbers Authority (IANA) pool of available IPv4 addresses reached critically low levels, triggering the global policy that allocated the five RIRs one /8 each. This caused the exhaustion of the global IPv4 address pool. AFRINIC saw an immediate interest in and increase of IPv6 address space allocation in the region. Looking at the IPv6 consumption rates over a 4-year period (2009–2013), consumption increased significantly in 2012, but this dropped slightly in 2013.

Equally importantly, the number of African economies where an IPv6 prefix has been allocated to an ISP or end-user rose to 49 in 2013 from 43 in 2012. This translates to a potential IPv6 coverage of 91% in Africa per country, a big leap from 50% in 2009.

However, not every economy with an IPv6 allocation has actually put the allocation to use i.e. deployed IPv6 on networks, so although the region's IPv6 coverage

looks comprehensive, it must be noted that IPv6 is still not widely in use and there is still a long way to go until Africa is IPv6 ready.



IPv6 Address Consumption Trend: 2010 - 2013

AS Numbers

170 AS Numbers were assigned during 2013 compared to 147 in 2012. From 2011, the option for specifying a 16 or 32-bit ASN was removed from the ASN request forms. All AS Numbers are now issued from a common 32-bit ASN pool. However, due to the incompatibility of some equipment with the higher bit order 32-bit ASNs, we allow, on a case-by-case basis, members to swap higher bit with lower bit order 32-bit ASNs.

Registration Services Activities in 2013

In 2013, the member services team reviewed and improved the membership application process and tools. As a result, new member registration and member queries were dealt with more smoothly and faster in general.

The average turnaround time to register a new member in 2013 was 23 days against 30 days in 2012. The turnaround time for a ticket to be closed depends on the time taken by the requestors to respond to the team, to pay the membership fees invoice and to sign the original Registration Service Agreement (RSA).

Member Guide Books

During the course of the year, three new Member Guide Books were published to provide information to those members that are Local Internet Registries (LIRs) to help them with IP planning and resources requests:

- IPv4 Request Guideline for LIR Members
- IPv4 Addressing Plan
- Internet Routing Registry

These Guide Books can be found online at: <http://www.afrinic.net/en/library/membership-documents>

The team also published the 2013 Member Guide Book, outlining Member Services practices and commitments towards valued Members, as well as the lists of tools and services offered to members to manage their membership and IP resources more efficiently.

The 2013 member Guide Book can be found online at: http://www.afrinic.net/images/doc/factsheets/ms_guide_book.pdf

Improved Communications

To provide more accurate and timely information about AFRINIC's services, the team also reviewed and improved the entire set of automated response messages

Member Services Application Satisfaction Survey

Over 2013, Member Services conducted a survey to measure member experience satisfaction during their application to become AFRINIC members:

- 94% of the 204 respondents were more satisfied with assistance from AFRINIC staff during their resource allocation process
- 6% expressed their concerns about the time taken to complete their membership, recommending that AFRINIC increased the speed of the IP resource request evaluation process.

More details about this survey and the results can be found online at: <http://meeting.afrinic.net/afrinic-19/en/agenda/programmex#day-7-29th-nov>

Please note that this survey was carried out online by AFRINIC and enabled the Member Services team to gather immediate feedback and adapt processes according to the comments received.

Training courses offered in 2013:

IPv6 Training

With one of the most well-respected and well attended IPv6 technical training programmes in Africa, AFRINIC's IPv6 Training course is spearheading Internet technology development throughout Africa. The IPv6 Training courses are IPv6 Forum Certified (Gold) and taught by IPv6 Forum Certified (Gold) engineers and trainers and aim to equip network engineers and operators with knowledge about IPv6 deployment and transition techniques. AFRINIC also offers IPv6 training courses adapted and tailored to the needs of government representatives, business leaders and other non-technical stakeholders. See page 20 for more information about AFRINIC's IPv6 programme.

INRM Training

The Internet Number Resource Management Training course helps AFRINIC Members learn what services AFRINIC offers, how to request and manage their number resources as well as how to use the WHOIS database and the Internet Routing Registry.



Mukom Tamon, AFRINIC Trainer, delivering a training course in Lusaka, Zambia in 2013.

Key Training Statistics 2013

13

Number of
countries

15

Number of
workshops

500+

Number of
participants

Country	City	Date 2013		Participants
Tunisia	Tunis	22 Apr	25 Apr	34
South Africa	Cape Town	6 May	9 May	27
Ethiopia	Addis Ababa	28 May	31 May	50
Nigeria	Lagos	18 Jun	21 Jun	40
Nigeria	Abuja	25 Jun	28 Jun	28
Zambia	Lusaka	15 Jun	17 Jun	20
Cameroon	Yaoundé	16 Jul	19 Jul	25
Gabon	Libreville	23 Jul	26 Jul	46
Tchad	N'Djamena	12 Aug	13 Aug	18
South Africa	Johannesburg	20 Aug	23 Aug	22
Benin	Cotonou	27 Aug	30 Aug	60
South Africa	Johannesburg	9 Sep	13 Sep	30
Senegal	Dakar	17 Oct	19 Oct	22
Malawi	Blantyre	28 Oct	1 Nov	32
Morocco	Marrakech	11 Nov	14 Nov	44
Cote D'ivoire	Abidjan	23 Nov	29 Nov	40
		TOTAL		538



For more information about AFRINIC's Training Programme, please see learn.afrinic.net

Capacity Building

AFRINIC plays a leading role in capacity building initiatives, including technical training, supporting infrastructure and technology development, community outreach and engagement activities.

IPv6 Programme

For several years, AFRINIC has been working hard to spread the message that Africa cannot afford to lag behind the rest of the world in the race to deploy IPv6. Its IPv6 Deployment Programme was set up in 2004 to complement the AFRINIC IPv6 Training course to ensure that all stakeholders in the region are aware of the urgent need to deploy IPv6 to make its networks, services and content IPv6-ready in order to remain a global player. The IPv6 Programme portal provides information for the community on transition mechanisms, best practice, training opportunities and reference materials.

Throughout 2013, AFRINIC continued to promote IPv6 deployment in the region through its IPv6 Programme, with AFRINIC representatives attending local, global and regional events to raise awareness of the importance of IPv6 deployment for Africa.

IPv6 Webinars

As previous years, in 2013, AFRINIC, Internet Society and France Telecom teamed up again to organise six IPv6 Webinars (four in English and two in French) in an effort to ignite African IPv6 initiatives and activities. Around 300 remote participants took part. The webinars were designed to assist African operators with their adoption plans through sharing best experiences and practices within the Africa region. The webinars featured expert presentations and experiences as well as open discussion.



Find out more about the webinars at:
<http://www.af6tf.net/index.php/webinars>

African IPv6 Task Force



AF6TF is a community driven initiative that was developed and discussed on the AFRINIC IPv6-discuss mailing list. The Task Force is dedicated to encouraging IPv6 deployment in Africa and the Indian Ocean region and to serve as a regional consolidated platform for knowledge and best practice exchange.

AFRINIC drove the initiative to create the African IPv6 Task Force (AF6TF) in 2012. The task force is dedicated to encouraging IPv6 deployment in the African region and serves as a regional platform for knowledge and best practice exchange. AFRINIC's IPv6 Programme volunteered to run all secretariat work for the Task Force, along with providing the hosting platform for the task force's services.

More information about this task force can be found at:
<http://www.af6tf.net/>

National IPv6 Deployment Committee in Côte D'Ivoire

In 2013 the Ministry of Post, Information and Communication Technology of Cote D'Ivoire, in collaboration with the Autorité de Régulation des Télécommunications/TIC, Cote D'Ivoire (ARTCI), held a workshop from 4-6 September 2013 to report on the tasks undertaken by the National IPv6 Deployment Committee and to complete the finalisation of a strategic deployment plan. AFRINIC supported the National IPv6 Deployment Committee in Côte D'Ivoire by providing technical IPv6 knowhow at the event.

More information at:
<http://www.afrinic.net/en/library/news/949-afrinic-apporte-sont-soutien-au-comite-national-de-deploiement-de-lipv6-de-la-cote-divoire>

The AXIS Project

AFRINIC offers support to the Internet Society's (ISOC) AXIS Project, which aims to keep Africa's Internet traffic local to the continent by providing capacity building and technical assistance to facilitate the establishment of National Internet Exchange Points (IXPs) and Regional IXPs in Africa. In 2013, AFRINIC contributed to this project by providing training during the:

- The AXIS best practices session in Swaziland
- The AXIS technical session in Namibia

More information about the AXIS project can be found online at:
<http://www.internetsociety.org/events/workshops/axis-project-and-axis-workshops>

AFRINIC also supported the activities of the African Internet Exchange Point Operators' Association (AF-IX) over the course of the year.

More details about AF-IX can be found online at:
<http://www.af-ix.net>

The African Root Server Copy Project (AfRSCP)

In collaboration with national and regional Internet Exchange Points (IXP), AFRINIC launched an Anycast root server project with the aim to increase the number of instances of root servers in the African region. Work continued on this activity throughout 2013.

More information can be found online at:
<http://afrinic.net/en/initiatives/root-server-copy>

Other Initiatives

AFRINIC offers several initiatives for the benefit of the entire community that contribute to capacity building efforts as well as to improving the security, stability and scalability of the region's Internet infrastructure.

Resource Public Key Infrastructure (RPKI)

Resource Certification is a security framework to verify the association between Internet number resources (IPv4, IPv6 and/or ASNs) and their rightful holders. Since 2006, AFRINIC like other RIRs, has worked on RPKI, while also following the development of the standards in the Secure Inter-Domain Routing (SIDR) Working Group at the Internet Engineering Task Force (IETF). Work continued on this activity throughout 2013.

More information can be found online at:
<http://afrinic.net/en/initiatives/resource-certification>

DNSSEC

AFRINIC manages and publishes Reverse DNS (RDNS) zone data for the IP address space it allocates or assigns to its members. It enables the community to validate authoritative DNS data from AFRINIC's RDNS zones and members to publish DS records to build the chain of trust for their RDNS zones. DNSSEC deployment is Number Resource Organization (NRO- see page 36) coordinated project as ERX blocks of address space require coordinated actions. Work continued on this activity throughout 2013.

The African DNS Support Programme

AFRINIC is building a scalable, robust and resilient DNS infrastructure and service to serve the region. This consists of redundant interlinked stand-alone and Anycast network infrastructure distributed across the African continent. The distributed nature of AFRINIC's DNS infrastructure will enhance the DNS reachability and resolution process due to its close proximity to end users. AFRINIC also offers an African DNS support programme, currently available to ccTLD operators, and Critical Internet Infrastructure operators in the African region. AFRINIC provides slave/secondary DNS services on its infrastructure at no cost to the operator as a part of this project. Work continued on this activity throughout 2013.

More information about the DNS Support Programme can be found online at:
<http://afrinic.net/en/initiatives/dns-support>

Ting'a Ting'a

Ting'aTing'a is the Swahili word for 'tunnel'. It also double as the word for 'tractor' or 'bulldozer' and was chosen to signify forward progress through building tunnels and bringing useful and necessary developments to regions that were previously considered hard to reach. As part of its Ting'aTing'a initiative, AFRINIC provides free tunnel broker services to organisations that are interested in testing and experimenting with IPv6. Work continued on this activity throughout 2013.

More information about this is available online at: <http://afrinic.net/en/initiatives/tinga-tinga>

Cooperation and Project Development

AFRINIC is committed to supporting ICT development work throughout the region, leading capacity building projects, contributing both financially and with human resources to join ventures and pledging support and assistance through Memorandums of Understanding (MoUs) and Letters of Intent (LoIs).

The FIRE Programme

A crucial part of AFRINIC's capacity building and education efforts, the Fund for Internet Research and Education (FIRE) Programme was set up in 2007 to provide monetary grants and awards to innovative ICT projects that contribute to social and technical development throughout Africa. FIRE also provides workshops, educational resources and access to relevant conferences for those who have been given an award or grant. FIRE is part of the Seed Alliance together with FRIDA (LACNIC - Latin America) and



ISIF Asia (APNIC - Asia Pacific) and offers grants and awards in three categories:

- Innovation on access provision
- E-development
- Freedom of Expression

More information about the FIRE Programme can be found online at: www.fireafrica.org

FIRE Awards 2013

In 2013, four FIRE Award winners received a US\$ 30,000 award to facilitate the implementation of their project. Award winners were invited to attend the 2013 Internet Governance Forum (IGF) held in Bali, Indonesia, to present their projects. The winners were:

- NikoHapa Ventures Ltd: the NikoHapa Customer Engagement Platform
<https://www.youtube.com/watch?v=nRNo8NAh8LA>
- HSoft Africa Ltd: An adapted Mail-Order Pharmacy for the Sub-Saharan African Developing Countries
<https://www.youtube.com/watch?v=bet84U83ZyY>
- Make Every Woman count (MEWC): Empowering African Women and Girls through the use of informative and interactive online resources:
<https://www.youtube.com/watch?v=BqjlaLRmQ54>
- CINETCORE: The VENAME Platform for the promotion, management and sale of African ccTLDs through mobile payment
<https://www.youtube.com/watch?v=Go1y8ziAiT0â>



2013 FIRE Award Winners at the Internet Governance Forum in Bali, Indonesia

FIRE Grants 2013

In 2013, eleven projects received US\$10,000 USD each to facilitate implementation.

Access provision:

- Cybernaptics Ltd: development of a proof of concept (PoC) for an affordable method of monitoring ground level of water resources in remote areas in Africa (Mauritius)
- CommuniNet Ltd: Empowering communities through technology with the provision of low cost broadband Internet services in Mitchell's Plain via a mesh network and telephony services (South Africa)
- Kenya Agricultural Research Institute (KARI): Enhancing Access to Kenya's Agricultural Sciences and Technology (AS&T) Information in Institutional and KAINet e-Repositories (also crosses over into the Development category) (Kenya)
- University of Ilorin - Kwara State Polytechnic: Wireless mesh network for campus Radio, e-learning & Communication among staff (Nigeria)

Freedom of Expression

- Collaboration on International ICT Policy in East and Southern Africa (CIPESA): Promoting and monitoring Internet freedoms in Africa through the provision of a repository for information - one-stop platform for researchers and practitioners to access reports and news on Internet rights violation (Uganda)

E-Development

- University of Zimbabwe: Shona, Early Learner Reader Android Application - design an android e-learning application (Text to Speech-TTS) on a low cost Android tablet to allow rural children to learn to read early using a local language (Zimbabwe)
- Network of Non Formal Education Institutions (N-NFEI): Enabling access to basic education through technology - setting up of video conferencing and a web-based E-learning Basic Education Platform (Kenya)
- Arusha Technical College: The availability and effectiveness of ICT in resolving environmental and social-economic challenges in Tanzania: a case study on Arusha & Manyara regions (Tanzania)
- Uganda Christian University: An electronic platform for East African Universities to enhance training and research in maternal health and gender (Uganda)
- ISERVICES SARL: Capacity Building in Information Security: Training the end-user (Togo)
- SYNERGY INFORMATICS: Integrated Management System for Continuous Medical Education (Kenya)

FIRE Partnership with Google

A partnership was signed in August 2013 between Google and AFRINIC to enhance the provision and dissemination of the FIRE Programme's call for applications for FIRE Grants and Awards. AFRINIC's CEO Adiel A. Akplogan served on the judging panel. AFRINIC also partnered with Google on the "Africa Connected" Competition, where five Africans were awarded \$25,000 prizes, and offered expert support from Google to support their ventures that aim to change lives in their local communities using the power of the web.

Find out more about more about Africa connected: <http://www.afrinic.net/en/library/news/1005-googles-africa-connected-finalists->



2013 FIRE Award Winners Farell Folly from ASOF AFRICA (centre left) and Rainatou Sow from Make Every Woman Count (centre right)

FIRE Workshops

The FIRE Programme facilitated a workshop on Grant Proposal Development during the AFRINIC-19 Meeting. The workshop focused on teaching the skills required to develop effective grant proposals to seek funding from FIRE and other potential donors and was offered to participants from isolated, post-conflict, Lusophone and Francophone regions. 15 participants from seven economies - Benin, Cameroon, Cape Verde, Republic of Central Africa, Cote d'Ivoire, Mali and Senegal – took part.



Grant proposals development workshops at AFRINIC-19 Abidjan, Cote-D'Ivoire

MoU on the Installation of First L-root Server Instance

As part of its root server copy project (AfRSCP), AFRINIC is committed to improving the quality of Internet traffic by facilitating the increase of the number of root server instances throughout Africa.

In 2013, AFRINIC signed a Memorandum of Understanding (MoU) with the Tunisian Minister of Information Technologies and Communication, Mr. Mongi Marzoug, to facilitate the installation of an instance of the L-root server. Improvements to the continent's infrastructure increase the resilience of the network in this region and provide Tunisian end-users faster access to the web.

More information about the MoU can be found here:

More information about AfRSCP can be found here:
<http://www.afrinic.net/en/initiatives/root-server-copy>

Technical Services and Operations

In 2013, the organisational objectives were to improve service delivery levels and enhance the resiliency of AFRINIC's infrastructure. To achieve these goals, the following activities were necessary:

Datacenter Virtualisation

The organisational growth in recent years and the increasing global exposure that AFRINIC and its services continues to face has led us to re-evaluate the underlying infrastructure. A strategic decision was made to replace several pieces of equipment that had reached the end of their usable life cycle in an environment that could support a shared-service based model, which also tied in well with the datacenter strategy.

Server virtualisation has proven to be a game-changing technology as it enables the IT department to provide efficiency, agility and flexibility. In 2013, AFRINIC chose to consolidate its server farm and migrate to a private cloud infrastructure model, beginning with the Mauritius datacenter. AFRINIC is now fully virtualised in Mauritius and is now reaping such benefits as footprint reduction, faster server provisioning and increased uptime. The new infrastructure in Mauritius enables us to host the following five environments:

- Corporate production
- Staging
- Quality Assurance
- Development
- Research and Development

Throughout the coming year, AFRINIC will focus on its Johannesburg datacenter where we host our public production services.

Review of the Disaster Recovery Plan

As part of the Business Continuity strategy, efforts were put on the deployment of technologies and processes to ensure that the core business functions encounter very minimal disruptive events. AFRINIC

opened negotiations with Teraco Data Environments to host some of our services at its Cape Town facility. The Disaster Recovery strategy is guided by achieving low Recovery Point Objective (RPO) and Recovery Time Objective (RTO). These objectives are reached by ensuring continuous synchronisation between AFRINIC's various sites and the use of tools that enable better management and automation of the Disaster Recovery orchestration and plan.

Enhancement of Various AFRINIC Services

The key objective for AFRINIC's technical operations in 2013 was the improvement of services to its members. Several projects were developed and launched over the course of the year:

WHOIS Web Update

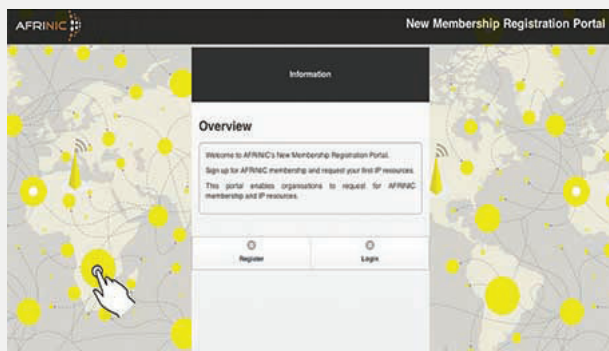
This initiative enabled users to update, create or delete WHOIS objects using a user-friendly graphical interface. Previously, updates to the WHOIS database could only be done via email or through the MyAFRINIC member portal.

The WHOIS Web update interface was integrated into the AFRINIC website and is available online at:
<http://www.afrinic.net/en/services/whois>

New Members Registration Portal

This project aimed at improving AFRINIC's membership application process for prospective members. The new portal will enable prospective members to access an online form, provide required information for the eligibility evaluation process, save incomplete forms and return to them at a later time and submit the application when all relevant documents are gathered. A beta version of the New Members Registration Portal was deployed in the second quarter of 2013.

and the project team benefited from the support and comments of AFRINIC members who tested the portal. These enabled us to improve many aspects of the portal. The portal will be launched in early 2014.



MyAFRINIC Integration to Billing Platform

While MyAFRINIC is the main interface for members to interact with AFRINIC and manage their Internet number resources, billing activities were performed on a different system. In the past, members' bills were manually imported into MyAFRINIC thus exposing the process to human errors. An interface was developed and deployed in 2013 to automate invoice retrieval from the accounting system in order to reduce possible errors between both platforms.

More information about the MyAFRINIC portal can be found online at: <https://my.afrinic.net/help/faq#4>

Support for AFRINIC's Training Programme

To enhance the AFRINIC Training Team's (see page 18) activities, we have deployed two new test labs, one in the Johannesburg datacenter and the second one in Cape Town. The Training Team now has a total of four labs that are actively used and contribute greatly to education and capacity building activities throughout the region.

The Routing Registry

A routing registry (RR) is a searchable database of routing policy information for networks in a given region. AFRINIC's members have always been instructed to create their routing objects in the RIPE NCC's database as AFRINIC had not yet deployed its own RR for the region. At the Africa Internet Summit (AIS) 2013 in Lusaka, Zambia the deployment of AFRINIC's RR was announced. The RR is part of the global Internet Routing Registry, and will contribute to standardising and publishing routing information so that network operators and Internet Service Providers can easily connect and work together.

E-Voting platform

AFRINIC Members in good standing are able to vote during the Annual General Members' Meetings (AGMM – see page 12). In 2013, the technical team integrated an e-voting platform in to the MyAFRINIC members' portal to enable those members who could not travel to the AGMMs in person or who did not want to vote by postal or proxy vote to vote online.

More information about e-voting can be found online in section 9 at: <http://afrinic.net/en/community/elections/bod-election/process>

Corporate Services

To support corporate services, the following solutions were delivered during 2013.

- Implementation of a new Access Control system with time attendance
- Deployment of a Human Resource Management System
- Implementation of a new enterprise grade backup solution
- Re-engineering of our email infrastructure

Community, Outreach and Internet Governance

As part of its capacity building efforts AFRINIC's outreach programme aims to inform, educate and disseminate information about Internet number resource management and policy development, Internet technologies, Internet governance, and e-development throughout the region. At well as attending workshops, panel sessions, developmental conferences and business events, AFRINIC also supports, facilitates and organises several events throughout the region. AFRINIC also seeks to represent the interests if the African and Indian Ocean nation's Internet technical community at global industry events to ensure that the unique needs of the region are taken into account.

AFRINIC also engages frequently with local, regional and global media, issuing press releases, scheduling interview sessions with key staff and community members and placing articles in strategic publications throughout the region and beyond.

An overview of 2013's press activities can be found online at:
<http://afrinic.net/en/library/news/press>

Community Activities 2013

AFRINIC Public Policy Meetings

AFRINIC holds two open public policy meetings every year in various locations throughout its service region. AFRINIC Meetings provide a unique opportunity for local, regional and global Internet-related individuals and organisations to gather to discuss and develop the policies governing Internet number resource distribution in the African region and beyond, to share technical knowledge and best practices, and to attend relevant workshops and tutorials. The first meeting of each year is usually held during the Africa Internet Summit.

AFRINIC-18



The AFRINIC-18 meeting was held from 19 -21 June 2013 in Lusaka, Zambia, during the AIS 2013 and attracted more than 400 attendees from 31 countries. The Meeting included two plenary days that enabled attendees to discuss Internet number resource policy development matters as well as developments in

technical Internet operations and local and global Internet Governance matters. The inaugural Africa Operators Day (AFops), organised by the African Network Operators' Group (AFNOG), was held on the 19 June, and mainly targeted operators, regulators and decision makers in Africa. The Operators Day provided an open platform to discuss the way forward on critical issues the region faces. Topics discussed included IPv6, Cyber security, Peering and Interconnectivity.

The first formal Annual General Meeting also took place during AFRINIC-18. See page 12

More information about the AFRINIC-18 meeting can be found at:
<http://meeting.afrinic.net/afrinic-18/>

More information AFops can be found at:
<http://meeting.afrinic.net/afrinic-18/node/318>

AFRINIC-19



The AFRINIC-19 Public Policy Meeting was held in Abidjan, Côte D'Ivoire, from 23 to 29 November 2013 and was attended by over 300 people from 49 countries. Most of the participants came from education and telecommunications sectors. The meetings included technical trainings and plenary sessions. Policy discussions and presentations on Internet related topics took place. A day was dedicated to operators in Africa where Internet technical issues and various challenges and opportunities in the Africa region were discussed.

The local host for the event was the Autorité de Télécommunications/TIC de Côte d'Ivoire in collaboration with Internet Society (ISOC) Côte D'Ivoire. The meeting was sponsored by Jaguar Network, Dot Africa, SES Satellite, Google Africa, Smile, Moov, Orange, MTN, Cloud Innovation, ICANN, ISOC, FRANCE-IX and Amanah.

The Africa Internet Summit (AIS) 2013



The annual AIS is a regional multi-stakeholder ICT conference which brings together the African Internet's numerous stakeholders including policy-makers, operators, regulators, technical experts, ISPs, government, and civil society representatives to discuss regional and global ICT issues and challenges and to take part in workshops and training sessions.

The forum provides a business-oriented structure. The AIS 2013 was organised jointly by AFRINIC and AfNOG. The 2013 summit was the inaugural event and attracted around 400 attendees from 31 countries. Approximately 130 people from 26 countries attended the AIS trainings sessions, which included AfNOG and AFRINIC workshops and tutorials. Most of the attendees came from the education and telecommunication sectors. The Honorable Yamfwa Mukanga, Minister of Transport, Works, Supply and Communications of Zambia was the summit's VIP guest.

The 2013 summit was hosted by the Zambia Information and Communication Technology Authority (ZICTA) in partnership with ISPA, Internet Service Provider Association for Zambia (ISPAZ). ZICTA, Dot Africa, Internet Society, Afiliias, Internet Corporation for Assigned Names and Numbers (ICANN), Liquid Telecoms, iconnect.zm, SEACOM, Google, France X, Organisation Internationale de la Francophonie (OIF), Hurricane Electric, Open root and Ama Sapho sponsored the event.



AFRINIC services update during AIS, 2013 in Lusaka, Zambia

More information can be found at:
<https://www.internetsummitafrica.org/>

Policy Development

The policies governing AFRINIC's Internet number resource management activities are developed through a community-driven, bottom-up Policy Development Process (PDP). The Board of Directors, elected by the AFRINIC membership, ratifies all accepted policies. Policy discussions are conducted via AFRINIC Public Policy Meetings and email discussion lists.

Anybody can propose and discuss policy matters related to Internet number resource management in the AFRINIC's service region. To participate you do not have to be an AFRINIC member but you need to subscribe to the Resource Policy Discussion (rpd) mailing list.

Public Policy Meetings are held twice a year in various locations throughout the region and are open to everyone. Remote participation facilities are made available. A crucial part of the policy development process is face-to-face discussions about the proposals during the Public Policy Meetings. At these meetings, consensus on proposals is sought from the community. If consensus is reached, then a Last Call is issued on the mailing list. If there are no objections in the last call phase, a policy is accepted and the final step is ratification by the AFRINIC Board of Directors.

Policy Overview 2013

Proposed Policies

In 2013, one policy was discussed.

- AFPUB-2013-GEN-001-DRAFT-03: Academic IPv4 Allocation

The above proposal didn't gain consensus during the AFRINIC-19 Public Policy meeting held in Abidjan, Côte d'Ivoire, in November 2013.

The policy was subsequently sent back to the mailing list for further discussion.

Policies Ratified

During AFRINIC 19 Public Policy Meeting held in Abidjan, the AFRINIC BoD ratified the following policies:

- AFPUB-2012-DNS-001: No Reverse Unless Assigned
- AFPUB-2013-V6-001: Remove requirement to announce entire IPv6 block as a single aggregate
- AFPUB-2012-V4-001: Anycast Assignments in the AFRINIC region

The rpd-mailing-list can be found online at:
<https://lists.afrinic.net/mailman/listinfo.cgi/rpd>

More information about the PDP can be found online at:
<http://www.afrinic.net/en/community/policy-development>

Archives of all policy ratified can be accessed at:
<http://afrinic.net/en/library/policies>

More information about AFRINIC Public Policy Meetings can be found online at:
<http://www.afrinic.net/en/community/afrinic-events>

Policy documents can be found online at:
<https://www.afrinic.net/en/library/policies>

Network Information & Infrastructure Service Award



Initiated in 2009 under the instigation of Dr. Naku Nii Quaynor, inspired by his own prestigious John Postel Award (the first African recipient for his long run engagement in Internet service in Africa), the Africa NI&I Service Award recognises people or organisations that have significantly contributed to have the development of Internetworking Services and Infrastructure in Africa and the Indian Ocean by dedicating time, resource, and vision to its enhancement.

South African Alan Barrett was awarded the 2013 NI&I Service Award for his commitment to capacity building and Internet development in Africa. He has been involved in capacity building through both AfNOG and AFRINIC for many years and is a key player in the African Internet community.

In addition, Patrick Okui, Uganda, was given the NI&I Young Professional Award for his work in capacity building through AfNOG and for his contribution to ensuring the organisation's trainings are conducted successfully.

More information at:
<http://www.afrinic.net/en/library/news/930-alan-barrett-wins-the-2013-nii-award>

More information at:
<http://www.nliserviceaward.org>

Call for Comments

AFRINIC issues Calls for Comments to the community on various documents in an effort to gather feedback. In 2013, Calls for Comments were issued on the following documents:

- Resource Policy Manual – DRAFT: 14 October
- AFRINIC Service Level Commitment: 05 August
- Privacy Policy Statement: 5 June

All calls for comments can be found online at:
<http://www.afrinic.net/en/library/cfc>



Alan Barrett receiving the NI&I Service Award and Patrick Okui, Winner of the NI&I young professional Award.

Internet Governance Activities 2013

Montevideo Statement on the Future of Internet Cooperation

In October 2013, AFRINIC met with the other Internet technical organisations responsible for coordination of the Internet infrastructure (IETF, IAB, the four other RIRs, ccTLD ROs, ICANN, ISOC, and W3C) to discuss the future of Internet Cooperation. Collectively known as the I* organisations, their discussions focused on:

- Reinforcing the existing multi-stakeholder mechanisms
- Internet defragmentation
- Unifying the effort to address Internet Governance challenges
- The Globalisation of the IANA and ICANN functions
- Urging the global deployment to IPv6

Together with the other organisations, AFRINIC signed the resulting “Montevideo Statement on the Future of Internet Cooperation” on 7 October 2013.

The statement can be found online at:
<http://www.afrinic.net/images/Press%20Release%20Montevideo%20Statement.pdf>



The heads of the Internet technical organisations (I*) meet in Montevideo during a retreat to discuss the future of Internet cooperation.

From Left to right:

Back Row: Fadi Chehadé (CEO of ICANN), John Curran (CEO of ARIN), Axel Pawlik (Managing Director RIPE NCC), Russ Housley (Chair IABA), Paul Wilson (Director General APNIC)

Front Row: Elise Gerich (VP IANA, ICANN) Jari Arkko (Chair IETF), Lynn St. Amour (CEO ISOC), Raúl Echeberria (CEO LACNIC) Jeff Jaffe (CEO, W3C)

Global Internet Governance Forum (IGF) 2013 in Bali

The IGF took place in Bali, Indonesia from 22-25 October 2013. AFRINIC attended with several other African Internet stakeholders to ensure the region's unique needs are represented. The IGF took place at a time of heightened interest in the Internet due to revelations about the extent of the NSA's surveillance activities, and was a crucial platform that enabled AFRINIC and the other RIRs to highlight the benefits of the multi-stakeholder approach to Internet Governance as the most effective to shape Internet-related policies. The RIRs previously released Montevideo Statement on the Future of Internet Cooperation” also attracted a lot of discussion.

AFRINIC, together with the other Regional Internet Registries (RIR) working as the Number Resource Organization (NRO), also sponsored two workshops, one on “IPv4 Markets and Resource Transfers” and the second on “The Importance of Regional Coordination in Internet Governance”.

During the IGF, the FIRE Programme, AFRINIC's flagship development programme, took part in several activities organised by the Seed Alliance together with the other RIRs sister programmes, FRIDA and ISIF, and showcased the 2013 FIRE Award winners at a ceremony on 23 October 2013.

More information at: <http://www.afrinic.net/en/library/news/966-afrinic-and-the-nro-to-participate-to-igf-2013-in-bali-indonesia>

Regional Internet Governance Forums

AFRINIC supports various regional IGFs throughout the region through sponsorship and participation. In 2013, AFRINIC supported:

- The 2nd African Internet Governance Forum, Kenya
- The Arab IGF 2013, Algeria
- The West Africa Internet Governance Forum (WAIGF), Côte D'Ivoire
- The East Africa Internet Governance Forum (EAIGF), Burundi
- Forum sur la gouvernance de l'internet en Afrique centrale (FGI-CA), DR Congo
- Southern Africa IGF, Angola

/1net

In 2013, AFRINIC was a founding member of /1net, an inclusive and open platform supporting discussion of Internet governance matters for all interested parties to safeguard public trust in the Internet and to deliver the results of those discussions to the agendas of established and developing Internet governance institutions. /1net aims to ensure that the voices of all contributors can be heard and carried forward to help shape the future of the Internet's governance. /1net will input directly into the upcoming NETmundial meeting, which will take place in Brazil in 2014.

More information about /1net can be found online at: www.1net.org

Engagement with Regional and International Bodies

AFRINIC works with the African Union Commission (AUC) as an observer of, and as part of the steering community on, the Ministerial Conference on Communications and ICT (MCIT). Throughout 2013, AFRINIC continued to participate in discussions with the Member States at ATU and the ITU regarding Internet governance, IPv6 and the role of the RIRs.

AFRINIC also works with the African Telecommunications Union (ATU) on regional meetings

for Internet industry stakeholders, on sub-regional meetings organised with the Regional Economic Commissions (RECs) and with the New Partnership for Africa's Development (NEPAD) on IPv6 and Internet number resource issues on the continent. AFRINIC attended two ITU Study Group meetings to share knowledge and give training courses on topics including "IPv6 for Decision Makers".

AFRINIC also attended the opening of the GSMA Regional Bureau and started talks on capacity building on IPv6 for operators.

In 2013, AFRINIC participated in the following related meetings:

- Fifth World Telecommunication/Information and Communication Technology Policy Forum (Sector: ITU-SG. Group: WTPF-13) in May
- Council Working Group on the World Summit on the Information Society (WSIS) (Sector: ITU-SG. Group: CWG-WSIS) in May and June

Mini Internet Summit, Tunis

In collaboration with the Tunisian Internet Agency, ATI, AFRINIC organised a Mini Internet Summit dedicated to IPv6 and Internet Governance on April 26, 2013, in Tunis. AFRINIC's role in the deployment IPv6 and the challenges and opportunities related to Internet governance in the region were discussed.



Moez Chakchouk (ATI) and Adiel Akplogan (AFRINIC) signing a Memorandum of Understanding (MoU)

Outreach

iWeek conference

The 12th iWeek conference was held from 9–12 September 2013 in Johannesburg, South Africa. iWeek brings together key players in the Internet industry and provides an important platform for established players to interact with start-ups and visionaries. AFRINIC participated at the event and provided IPv6 and training to delegates.

More information at: <http://www.afrinic.net/en/library/news/952-iweek-2013>

Commonwealth Telecommunication Organisations (CTO) Events

In 2013, AFRINIC was a supporting partner of the Commonwealth Telecommunication Organisations (CTO) Forum 2013 held from October 7-9 at the Transcorp Hilton, Abuja, Nigeria. The 2013 CTO Forum focused on 'Innovation through Broadband' and was organised by the CTO in collaboration with the Federal Ministry of Communication Technology and Nigerian Communications Commission on behalf of the Federal Government of Nigeria. AFRINIC also participated in the CTO EGov Africa Forum in March in Uganda, and the CTO Commonwealth Cybersecurity Forum in March in the UK, with staff and Board members presenting on IPv6 also and security issues.



Hisham Ibrahim (AFRINIC) presenting on IPv6

More information at: <http://www.afrinic.net/en/library/news/941-afrinic-supports-cto-for-innovation-through-broadband>

Africa Peering and Interconnection Forum (AfPIF)



AFRINIC participated in the Africa Peering and Interconnection Forum (AfPIF) 2013 in Casablanca, Morocco as well as contributing as one of the event's gold sponsors. This three-day event addressed the key Interconnection opportunities and challenges that exist in the region.

More information at: <http://www.afrinic.net/en/library/news/948-afpif-2013>

TV White Space Africa Forum 2013

In line with its capacity-building programme, AFRINIC partnered with the TV White Space Africa Forum 2013. Under the ambit of TV White Spaces, AFRINIC and several other organisations including Google, the Internet Society (ISOC), Microsoft, and the Association for Progressive Communications (APC) organised a two-day (30-31 May 2013) forum in Dakar, Senegal, where issues relating to the expansion and provision of broadband Internet using television signals were discussed.

More information at: <http://www.afrinic.net/en/library/news/917-afrinic-partners-with-the-tv-white-space-africa-forum-2013>

InfoDev Global Forum on Innovation & Technology Entrepreneurship

AFRINIC participated to the InfoDev Global Forum on Innovation & Technology Entrepreneurship, East London South Africa, 2013 28-30 May 2013 to showcase its flagship programme, FIREafrica and meet would-be entrepreneurs who might be interested in its awards and grants.

Global Coordination Activities 2013

The Number Resource Organization (NRO)



The Number Resource Organization (NRO) is a coordinating body for the five RIRs. The NRO takes on several joint activities on behalf of the RIRs, including technical projects such as Resource Certification, as well as other projects, including global statistics reports, Internet governance activities, and global policy coordination. The NRO's mission is to actively contribute to an open, stable and secure Internet, through:

- Providing and promoting a coordinated Internet number registry system
- Being an authoritative voice on the multi-stakeholder model and bottom-up policy process in Internet governance
- Coordinating and supporting joint activities of the RIRs

Throughout 2013, AFRINIC took its turn as the NRO Secretariat as well as participating in NRO-initiated activities.

An overview of NRO activities can be found online at: www.nro.net/

The NRO Number Council (NRO NC) and The Address Supporting Organization (ASO)

The NRO NC is comprised of three people from each RIR's local Internet community and acts as an advisory body to the NRO EC. The NRO NC also performs the role of the Address Supporting Organization Address Council (ASO AC).

The ASO is one of the three supporting organisations required by the ICANN bylaws. The ASO reviews recommendations on global IP address policy and advises the ICANN Board on these matters. The ASO Address Council (AC) appoints two directors to the ICANN Board of Directors. ASO AC members are appointed from each of the five RIR regions. The local Internet community in each region selects two members and the Executive Board of each RIR appoints one member to the ASO AC.

In 2013, the representatives from AFRINIC's service region were:

- Fiona Assonga
- Alan Barrett
- Douglas Onyango

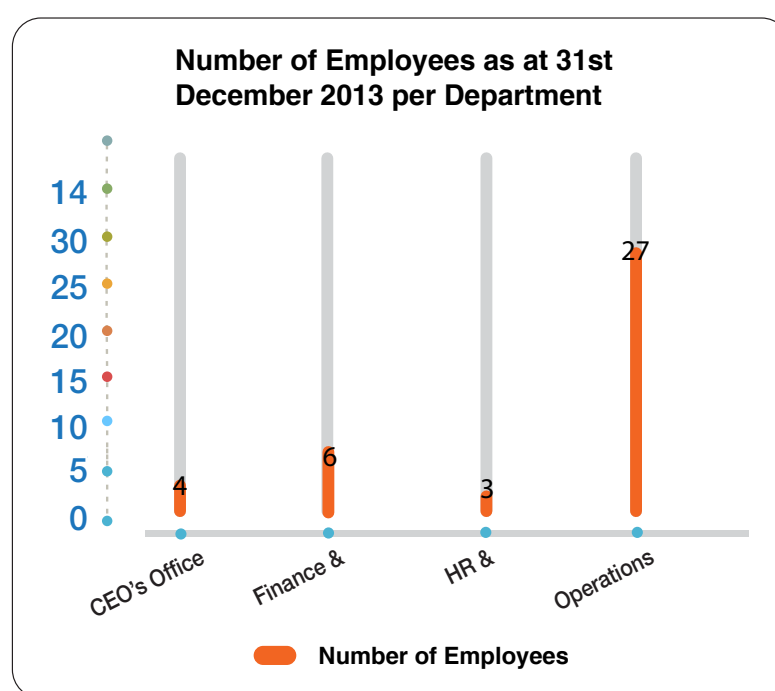
For more information on the NRO NC and the ASO AC, please see: <https://aso.icann.org>

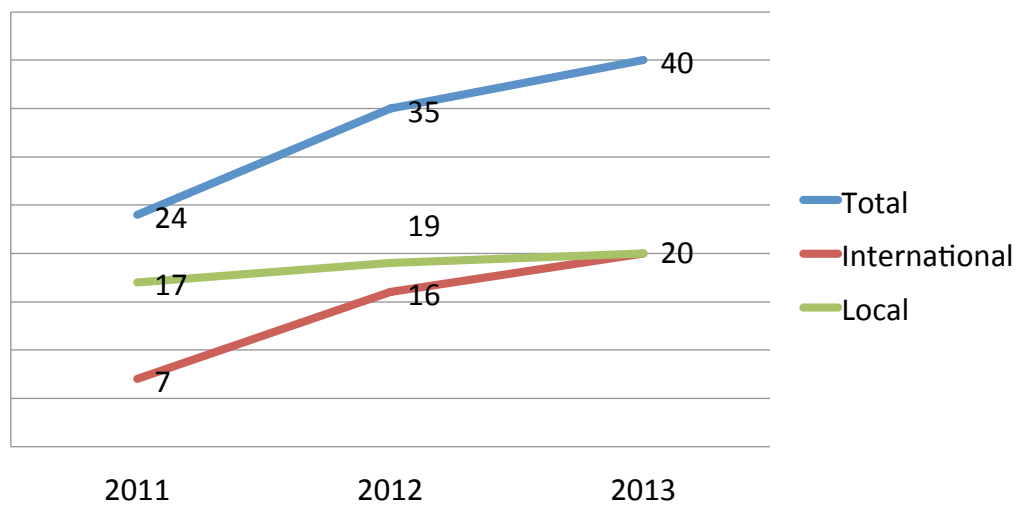
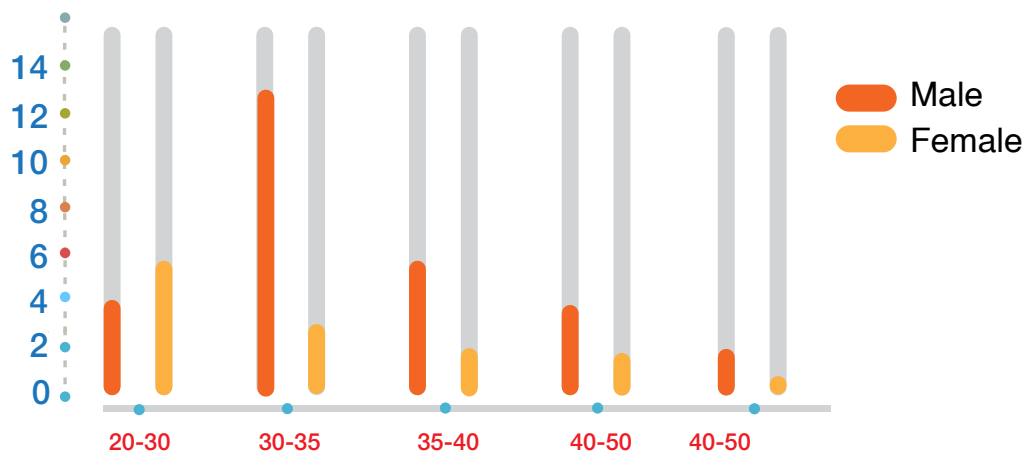
Human Resources Overview

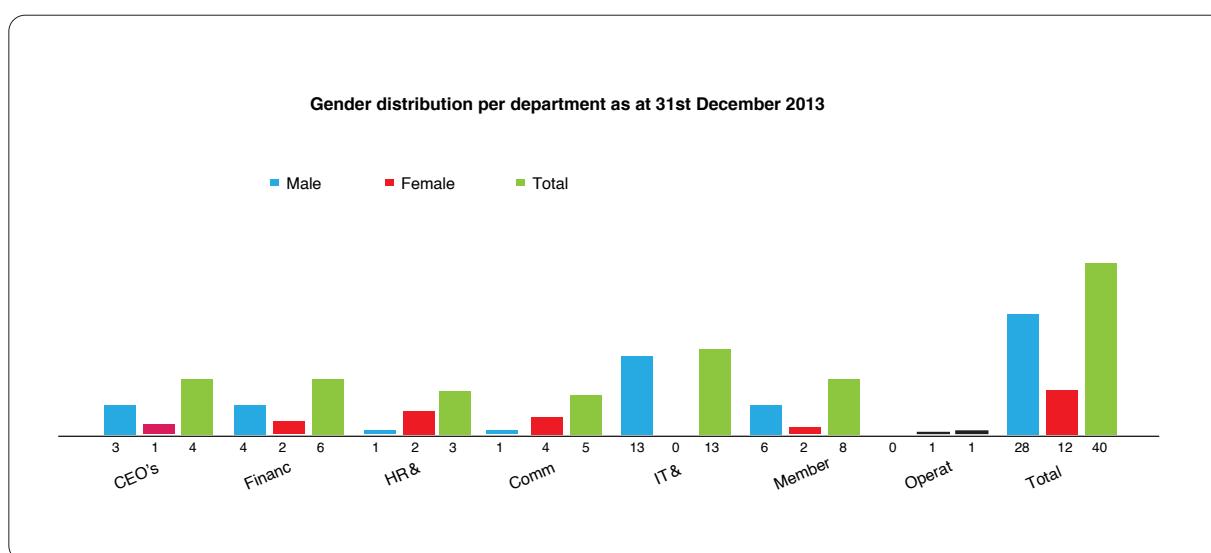
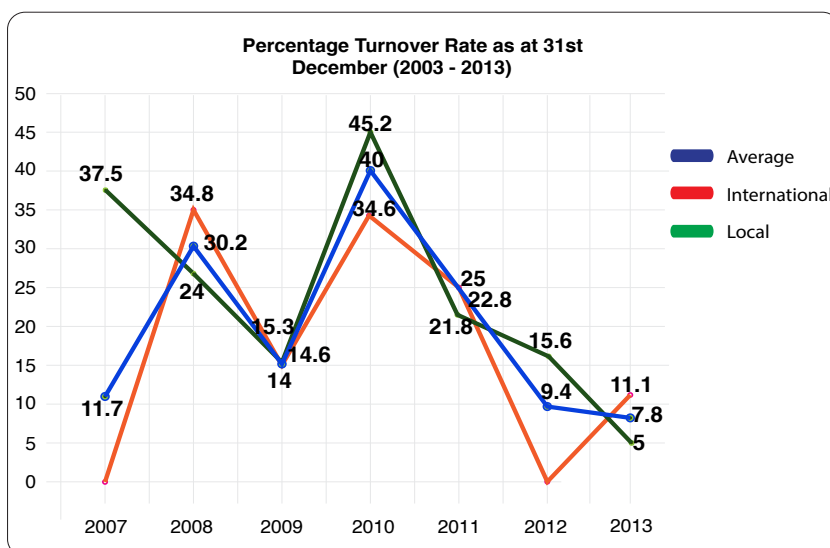
AFRINIC's staff perform the administrative and technical functions associated with a Regional Internet Registry (RIR). At year-end 2013, AFRINIC had 40 staff in employment from 13 countries. Six new staff members were hired in 2013, two in the Communications & PR department, two in the IT & Engineering department and two in the Finance & Accounting department.

The Human Resources team worked on several projects over the course of 2013, including:

- A 360 degree feedback review programme
- Performance Management System
- ISO Certification (ongoing)
- Staff forums and training programmes
- Team building exercises



Evolution of Staff (December 2011 - December 2013)**AGE GROUP FOR YEAR 2013**



The AFRINIC team at Casela Nature Park, Mauritius for a memorable team building day.

Financial Report

Membership Fees Income

Membership fees income grew from US\$ 2,636,032 to US\$ 3,342,512 reflecting an improved growth of 27% over last period (2012 - 7.4%, 2011 - 9%) and crossing the \$3million mark for the first time. Unfortunately, due to the continued defaults and delays in fees settlements (which was negatively impacting cash flows and placed a heavy burden on limited resources), in 2013, the Late Payment Penalty provision contained in the RSA was applied for the first time. A total amount of \$170k was raised through penalties also greatly improved our fees collection rate. The upsurge in membership fees is attributable to the increase resources released in the previous

year and the impact of the revised membership fees for End Sites. The reduced member closures in 2013 was also contributing factor. In addition increased engagements with members together with newly introduced processes implemented when dealing with new applications are beginning to pay dividend. It is envisaged that such a tendency will continue with positive impact on membership growth for the years ahead. Income from sponsorships has remained stable, reflecting both a sustained level of confidence from our partners and a marked committed effort from the team.

Operating Costs

Total Operating Costs increased by only 12% from last financial year, from US\$ 3,161,186 to US\$ 3,551,960 (2012 - 32.3%, 2011 - 2.9%) denote an overall good control of our costs. Staff Costs remains the major single cost item in the operating costs, accounting for 57% of total costs. The full organisational structure having been achieved in 2013, moderate movement is envisaged for future years. In 2013, there was an additional focus on staff training and development; an investment which will have a direct positive impact on service delivery. Other costs which contributed to the

increase in Operating Costs included Depreciation, which is attributed to the ongoing technical upgrade, Bank charges which is related to an increased utilisation of fee payment via Credit card and an improved fee collection during 2013. However, as a result of improved cost control measures introduced since mid-2013 (following the 2012 deficit) much of the other costs were kept to more or less at the same level as in 2012. Travel Expenses and Bad Debts recorded the largest drop; closed at \$509k and \$49k respectively; much lower than 2012.

The Bottom line

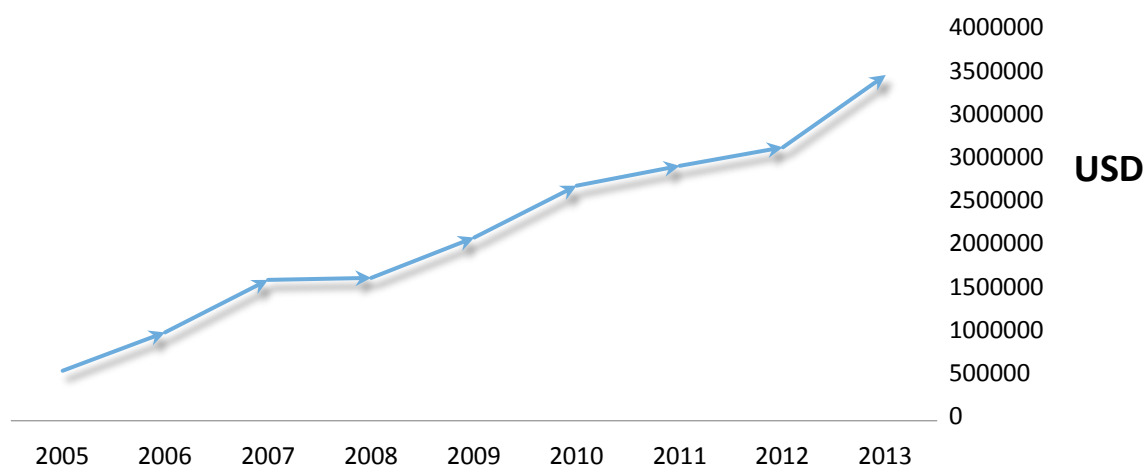
2013 saw AFRINIC bounced back from a deficit of \$263k to end the year with a surplus of \$ 69k. The turnaround is the result of stringent cost control measures adopted and a lot of effort by a team of dedicated staff. In addition, much emphasis was placed on optimising membership processes. Consequently, total Reserves moved from \$ 1,168K in 2012 to US\$ 1,237K in 2013. During the year under review, US\$ 373k (2012 US\$ 309K) was spent on infrastructure. Investment in Capital is expected to continue as our infrastructure undergoes a complete refresh with a view to a more resilient and robust environment which will ultimately improve service levels and efficiency.

Prospects

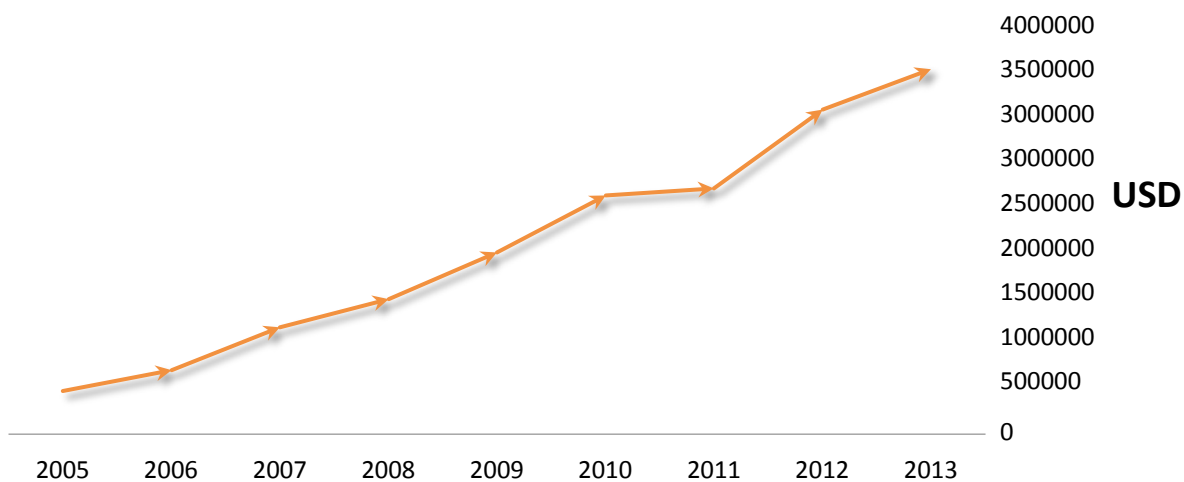
As at the Balance Sheet date, Cash holding grew by 12%, Total Reserves increased by 6% and more importantly the Liquidity Ratio maintained at a respectable 1:1.7. With the structure fully implemented, the focus is turned to service excellence. Increase in the membership base remains all important and every effort will concentrate on reaching out and engaging members and the community. Costs control discipline shall remain a top feature as the organisation embarked on the next strategy as set for the next few years. The improved fees collections shall be maintained and enhanced with a view to achieving a 100% record, whilst keeping closures and resource reclaim to a very minimum with very high member satisfaction.

	2013	2012	2011	2010	2009	2008	2007	2006	2005
	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
Fee Income	3,342,512	2,636,032	2,453,781	2,258,867	1,754,902	1,365,891	1,346,027	832,131	457,336
Grants & Sponsorships	119,400	121,931	56,653	129,388	151,989	63,971	111,516	211,058	249,904
Total Operating Expenses	(3,551,960)	(3,161,186)	(2,389,663)	(2,321,408)	(1,767,422)	(1,311,707)	(1,042,925)	(682,028)	(419,732)
Finance Income and (Other Costs)	159,170	140,132	(116,949)	(27,500)	(125,312)	174,271	(140,757)	108,213	62,400
Surplus/(Deficit) for the year	69,322	(263,091)	3,822	39,348	14,157	292,429	273,861	469,374	349,908
Total Reserves at end of year	1,237,343	1,168,021	1,431,112	1,427,290	1,387,942	1,373,345	1,254,802	962,025	528,289
Reinvestment in infrastructure	373,444	244,673	48,958	346,203	29,827	34,230	31,195	62,537	30,112

Fee Income



Operating Costs



Statement Of Financial Position As At 31 December 2013

	Year Ended 31 December 2013		Year Ended 31 December 2012	
	MUR	US \$	MUR	US \$
Assets				
Non-current assets				
Plant and equipment	18,748,390	\$624,946	13,061,593	\$435,386
Intangible assets	2,001,084	\$66,703	2,266,427	\$75,548
	20,749,474	\$691,649	15,328,020	\$510,934
Current assets				
Trade and other receivables	16,715,199	\$557,173	18,166,684	\$605,556
Cash and cash equivalents	26,765,991	\$892,200	23,992,836	\$799,761
	43,481,190	\$1,449,373	42,159,520	\$1,405,317
Total assets	64,230,664	\$2,141,022	57,487,540	\$1,916,251
Reserves and Liabilities				
Revenue reserves	-2,573,474	-\$85,782	-4,653,124	-\$155,104
Other reserves	39,693,750	\$1,323,125	39,693,750	\$1,323,125
Total assets attributable to members	37,120,276	\$1,237,343	35,040,626	\$1,168,021
Non Current liabilities				
Finance Lease obligation	889,541	\$29,651	1,142,664	\$38,089
Current liabilities				
Finance Lease obligation	253,129	\$8,438	226,651	\$7,555
Trade and other payables	25,967,718	\$865,591	21,077,599	\$702,587
	26,220,847	\$874,028	21,304,250	\$710,142
Total liabilities	27,110,388	\$903,680	22,446,914	\$748,230
Total reserves and liabilities	64,230,664	\$2,141,022	57,487,540	\$1,916,251

Surplus And Loss Statement - Year Ended 31 December 2013

(USD comparatives)

	Year Ended 31-Dec-13	
	MUR	US \$
Income		
Membership fees income	100,275,348	\$3,342,512
Other Income	3,581,988	\$119,400
	103,857,336	\$3,461,911
Administrative expenses		
Human Resources	-60,773,400	-\$2,025,780
Telephone & Communications	-1,318,260	-\$43,942
Computer expenses	-59,610	-\$1,987
Office expenses	-7,479,952	-\$249,332
Motor Vehicles expenses	-170,010	-\$5,667
Insurances	-272,970	-\$9,099
Printing, postage & stationery	-173,070	-\$5,769
Bank charges	-1,309,980	-\$43,666
Audit fees	-195,030	-\$6,501
Depreciation	-5,736,630	-\$191,221
Legal & Consulting fees	-1,610,970	-\$53,699
LIR Training	-2,607,330	-\$86,911
Total Administration Expenses	-81,707,212	-\$2,723,574
Distribution expenses		
Advertising expenses	-720,420	-\$24,014
Bad debts	-1,466,700	-\$48,890
Meeting and seminars expenses	-3,009,150	-\$100,305
Contribution & Sponsorship	-4,389,480	-\$146,316
Travelling expenses	-15,265,830	-\$508,861
Total Distribution Expenses	-24,851,580	-\$828,386
Total Operating expenses	-106,558,792	-\$3,551,960
Other Income/Expenses		
Interest income	73,149	\$2,438
Exchange (Loss)/Gain	4,815,845	\$160,528
Other (Costs)/income	-107,888	-\$3,596
Total Other Income/Expenses	4,781,106	\$159,370
(Deficit)/Surplus for the period	2,079,650	\$69,322

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Auditors' Report



3.

INDEPENDENT AUDITORS' REPORT TO THE MEMBERS OF AFRICAN NETWORK INFORMATION CENTRE (AfrINIC) LTD

Report on the Financial Statements

We have audited the financial statements of African Network Information Centre (AfrINIC) Ltd (the "Company") on pages 5 to 29 which comprise the statement of financial position as at December 31, 2013 and the statement of comprehensive income, statement of changes in equity and statement of cash flows for the year then ended and a summary of significant accounting policies and other explanatory notes.

Directors' Responsibility for the Financial Statements

The directors are responsible for the preparation and fair presentation of these financial statements in accordance with International Financial Reporting Standards and in compliance with the requirements of the Companies Act 2001, and for such internal control as the directors determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with International Standards on Auditing. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgement, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditors consider internal control relevant to the company's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the company's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by the directors, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements on pages 5 to 29 give a true and fair view of the financial position of the Company as at December 31, 2013 and of its financial performance and cash flows for the year then ended in accordance with International Financial Reporting Standards and comply with the Companies Act 2001.



4.

**INDEPENDENT AUDITORS' REPORT TO THE MEMBERS OF
AFRICAN NETWORK INFORMATION CENTRE (Afrinic) LTD (CONTINUED)**

Report on the Financial Statements (Continued)

Other matter

This report, including the opinion, has been prepared for and only for the Company's members, as a body, in accordance with Section 205 of the Companies Act 2001 and for no other purpose. We do not, in giving this opinion, accept or assume responsibility for any other purpose or to any other person to whom this report is shown or into whose hands it may come save where expressly agreed by our prior consent in writing.

Report on Other Legal and Regulatory Requirements

Companies Act 2001

We have no relationship with or interests in the Company other than in our capacity as auditors and dealings in the ordinary course of business.

We have obtained all the information and explanations we have required.

In our opinion, proper accounting records have been kept by the Company as far as it appears from our examination of those records.

ERNST & YOUNG
Ebène, Mauritius

LI KUNE LAN POOKIM, A.C.A, F.C.C.A.
Licensed by FRC

Date: 1 JUN 2014

Statement of Comprehensive Income

AFRICAN NETWORK INFORMATION CENTRE (Afrinic) LTD STATEMENT OF FINANCIAL POSITION AS AT DECEMBER 31, 2013

5.

	Notes	2013 Rs	2012 Rs
ASSETS			
Non-current assets			
Plant and equipment	3	18,748,390	13,061,593
Intangible assets	4	2,001,084	2,266,427
		<u>20,749,474</u>	<u>15,328,020</u>
Current assets			
Trade receivables and other assets	5	16,715,199	18,166,684
Cash and cash equivalents	6	26,765,991	23,992,836
		<u>43,481,190</u>	<u>42,159,520</u>
Total assets		<u>64,230,664</u>	<u>57,487,540</u>
RESERVES AND LIABILITIES			
Revenue reserve		(2,573,474)	(4,653,124)
Other reserve		39,693,750	39,693,750
Net assets attributable to members		<u>37,120,276</u>	<u>35,040,626</u>
Non current liabilities			
Finance lease obligation	7	889,541	1,142,664
Current liabilities			
Finance lease obligation	7	253,129	226,651
Trade and other payables	8	25,967,718	21,077,599
		<u>26,220,847</u>	<u>21,304,250</u>
Total liabilities		<u>27,110,388</u>	<u>22,446,914</u>
Total reserves and liabilities		<u>64,230,664</u>	<u>57,487,540</u>

These financial statements have been approved by the board of directors on Jun 01 2014

Name of directors

Signature

(1) Isaac Ntege(2) Abel Akplogan

The notes on pages 9 to 29 form an integral part of these financial statements.
Auditors' report on pages 3 and 4.

AFRICAN NETWORK INFORMATION CENTRE (AfrINIC) LTD
STATEMENT OF COMPREHENSIVE INCOME
FOR THE YEAR ENDED DECEMBER 31, 2013

6.

	Notes	2013 Rs	2012 Rs
Income	9	103,857,336	82,738,905
Distribution expenses		(25,704,062)	(31,545,858)
Administrative expenses		(80,854,730)	(63,289,719)
		(106,558,792)	(94,835,577)
Deficit of income over expenditure	10	(2,701,456)	(12,096,672)
Gain on foreign exchange		4,815,845	3,471,851
Finance revenue	11	73,149	757,920
Finance cost	12	(107,888)	(25,824)
Surplus / (Deficit) for the year		2,079,650	(7,892,725)
Other comprehensive income		-	-
Total comprehensive income/(loss) for the year		2,079,650	(7,892,725)

The notes on pages 9 to 29 form an integral part of these financial statements.
Auditors' report on pages 3 and 4.

Acronyms

AAU	Association of African Universities
AfNOG	African Network Operators Group
AFRINIC	African Network Information Centre
AFTLD	Africa Country Code Top Level Domains
ARTP	Agence de Régulations des Télécommunications et des Postes
ASN	Autonomous System Number
ASO	Address Supporting Organisation
CCG	Communication Coordination Group
DNS	Domain Name Service
EAIGF	East Africa Internet Governance Forum
ECG	Engineering Coordination Group
IANA	Internet Assigned Number Authority
ICANN	Internet Corporation for Assigned Names and Numbers
IETF	Internet Engineering Task Force
IGF	Internet Governance Forum
IP	Internet Protocol
IPv6	Internet Protocol version 4
IPv4	Internet Protocol version 6
ISOC	Internet Society
ISP	Internet Service Provider
ITU	International Telecommunication Union
IXP	Internet Exchange Point
LIR	Local Internet Registry
NRO	Number Resource Organization
NSRC	Network Startup Resource Center
OIF	Organisation Internationale de la Francophonie
OCF	Office National des Chemins de fer
PDP	Policy Development Process
PKI	Public Key Infrastructure
RIR	Regional Internet Registry
RPKI	Resource Public Key Infrastructure
RR	Routing Registry



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www.afrinic.net

Published by AFRINIC,
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This Annual Report can be found online at: <http://www.afrinic.net/images/stories/Library/corp/a413.pdf>

AFRINIC Annual Report 2013 was first published on 6 June, 2014. This edition was re-published on 27 November and incorporates improvements to the layout and text. Please

note that no changes have been made to the Financial Information, as approved by the AFRINIC Members during the AGMM on 6 June 2014, on pages 39 - 46.