AFRINIC Update

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1,533 Resource Members (2017 figures):
- Total IPv4 space held by members: **100,731,136** /32s (6 /8s)
- Total IPv6 space held by members: **9162** /32s.

351 Legacy Space Holders*:
- Total IPv4 (legacy) space held by legacy space holders: **8,458,752** /32s (**0.5** /8).

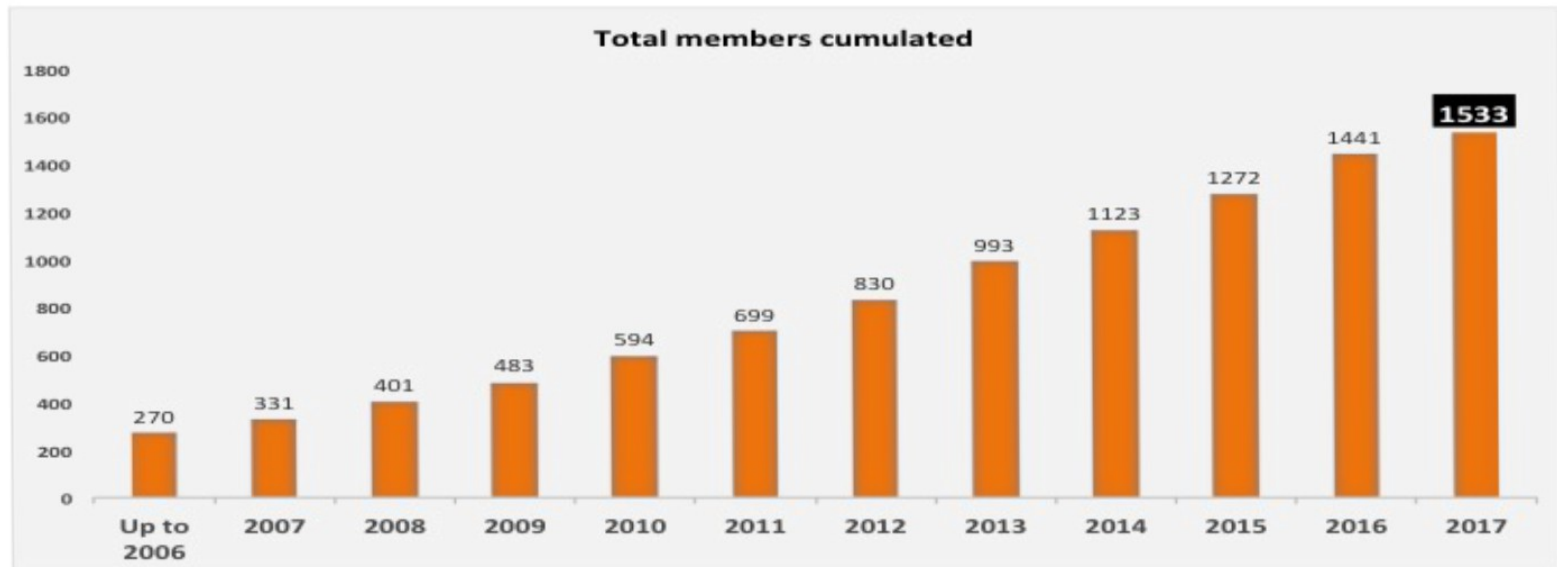*Legacy space holders are organisations that are not AFRINIC members*.

2017:
- **6,960,896** IPv4 addresses allocated.
- **90** /32s of IPv6 space allocated.
- **119** Autonomous System Numbers (ASNs) assigned.

2016:
- **11.7 million** IPv4 addresses allocated (0.7 **/8**).
- **78** /32s, **37** /48s and **1** /40 of IPv6 address space allocated.
- **169** ASNs assigned.

- **115** new members so far in 2017.
- **169** new members in 2016.
- **1,533** total members to date.

Total members cumulated

Year	Members
Up to 2006	270
2007	331
2008	401
2009	483
2010	594
2011	699
2012	830
2013	993
2014	1123
2015	1272
2016	1441
2017	1533

- IPv4 Exhaustion: Phase 1.

- 0.79 /8s remaining in AFRINIC's IPv4 inventory.

- Focus on getting IPv6 deployed throughout the region:
  - Free training on IPv6 Deployment:

    www.learn.afrinic.net

  - Launched Certi::6 – IPv6 Certification Programme:

    www.certi6.io
  - Use of IPv6 test bed.
  - Knowledge share and information exchange.

AFPUB-2017-GEN-002-DRAFT-01 : AFRINIC PDP bis

(DRAFT-01) : 28 April 2017, under discussion

Suggests improvements to the current PDP, majorly:

- Chair + Vice Chair model (instead of co-chairs)
- Clearer mechanisms for appeals and disputes
- Introduction of phases for policy proposal life cycle
- More transparency around consensus-gauging

AFPUB-2017-V4-002-DRAFT-01: Route Aggregation Policy

(DRAFT-01) : 21 April 2017, under discussion

Allows issuance of IPv4 prefixes as contiguous bit boundary ranges in order to limit/mitigate the number of 'broken' IPv4 prefixes being announced.

AFPUB-2017-DNS-001-DRAFT-01: Lame Delegations in the AFRINIC reverse DNS

(DRAFT-01) : 11 Apr 2017, under discussion

- Proposal lays out a process to monitor NS records responsible for lame delegations (in DNS zones under in-addr.arpa and ip6.arpa managed by AFRINIC).

- Puts in place a phased approach to removing these records from the DNS.

AFPUB-2017-GEN-001-DRAFT-02: Anti Shutdown

(DRAFT-02) : 24 May 2017, under discussion

- Proposes a framework to deny IP address space and related registry services (and revoking any issued numbers) to governments which shut down free and open access to the internet in order to push political and other agendas.
- Depending on the shutdown recurrence, resources can be revoked for a duration of up to 10 years.

AFPUB-2016-GEN-001-DRAFT-04: Internet Number Resources' Review

(DRAFT-03) : 24 Apr 2017, under discussion

- Allows AFRINIC to conduct routine (or whistle-blower triggered) resource audits on members.
- Provides for revocation of resources (and closure of members) that fail such audits (reviews).

AFPUB-2016-V4-001-DRAFT-06: IPv4 Soft Landing bis (DRAFT-06) : 22 Sep 2017, under discussion

- Complete replacement of the current Soft Landing policy (CPM 5.4)
- New maximum allocation sizes (/18 for phase 1 of exhaustion, /22 for phase 2 of exhaustion). *(Phase 2 starts when remaining free pool hits /11).*
- Sets a 2-year wait period for subsequent allocation if a member has already been allocated maximum space in either phase.
- Reserves a /12 to 'facilitate IPv6 deployment'.

IPv4 Resource Transfers within the AFRINIC region

Implemented – CPM 5.7

- Provides for IPv4 transfers within the region (intra RIR transfers)
- Caters to African companies needing IPv4 space after exhaustion of the AFRINIC IPv4 pool (or when AFRINIC can no longer satisfy the needs of such an organization).
- Transfer recipients must demonstrate the need for space to be transferred.

- 2017 Workshops kicked off in April.

- **22** countries selected to host.

- **572** people trained on IPv6 and INRM in **18 workshops** in 12 countries throughout Africa in 2017.
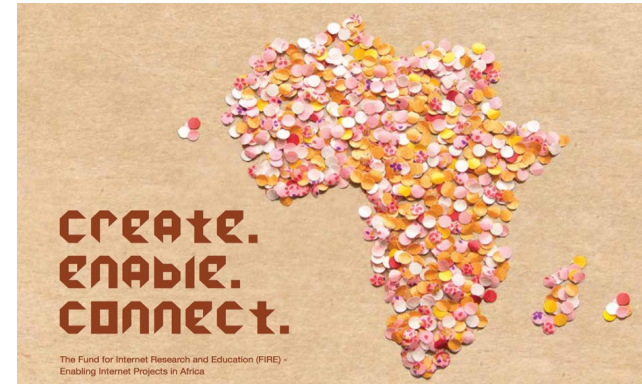
FIRE Africa

- 3 Projects selected in 2017 for the FIRE Awards Program

➢ The Last Mile Connectivity
➢ The Mobile Solar Computer Classroom (MSCC)
➢ EduAirBox Project

Fellowships:

- **26** AFRINIC Fellows were provided with assistance to attend the AFRINIC-26 and AFRINIC-27 Meeting in 2017.

create.
enable.
connect.

The Fund for Internet Research and Education (FIRE) -
Enabling Internet Projects in Africa

- **AFRINIC-27: Lagos, Nigeria** 27 November – 1 December 2017.
  - ➤ Training and workshops take place 27 – 28 November.
  - ➤ Plenary and policy discussion sessions take place 29 November – 1 December.
  - ➤ #AFRINIC27

Thank you for your Attention

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