# AFRINIC Update

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**CEO**

**ARIN 39 | April 2017**

- **31** new members so far in 2017.
- **169** new members in 2016.
- **150** new members in 2015.
- **1,471** total members to date.



**Total members**

| Year | Total members |
|------|---------------|
| 2005 | 208 |
| 2006 | 270 |
| 2007 | 331 |
| 2008 | 399 |
| 2009 | 483 |
| 2010 | 594 |
| 2011 | 699 |
| 2012 | 829 |
| 2013 | 992 |
| 2014 | 1122 |
| 2015 | 1271 |
| 2016 | 1440 |
| 2017 | 1450 |

*Year*
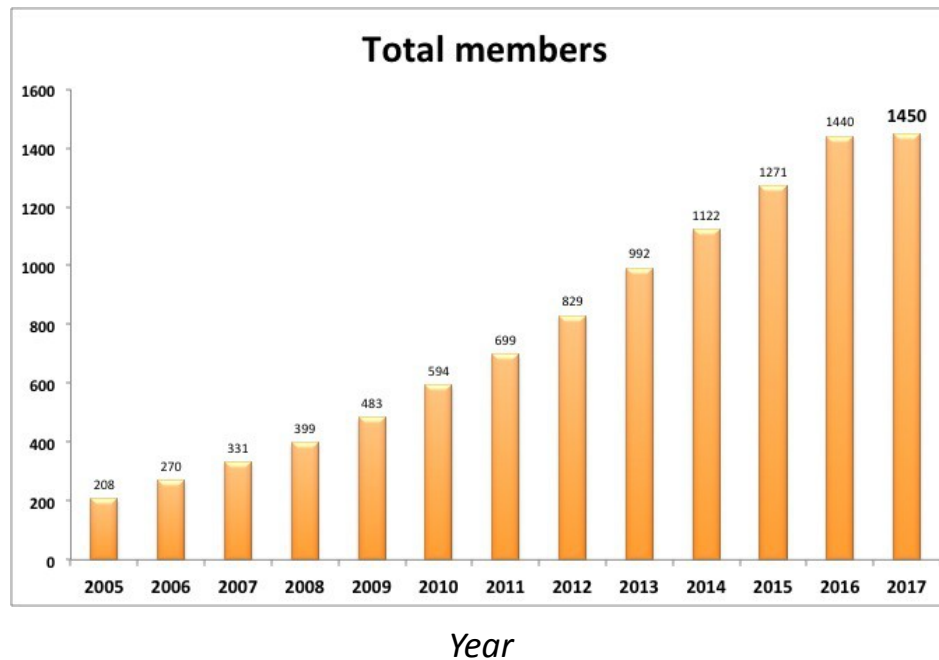
**1,467** Resource Members:

- Total IPv4 space held by members: **102,432,512** /32s (**6.11** / 8s)
- Total IPv6 space held by members: **9,080** /32s.

**351** Legacy Space Holders*:

- Total IPv4 (legacy) space held by legacy space holders: **8,548,752** /32s (**0.5** /8).

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

**2017 to date:**

- **3,234,304** IPv4 addresses allocated.

- **20** /32s of IPv6 space allocated.

- **40.7%** of the membership now has an IPv6 allocation.

- **36** Autonomous System Numbers (ASNs) assigned.

## On 3 April 2017, AFRINIC entered IPv4 Exhaustion Phase 1

- **16,777,216** /32s of available IPv4 left in AFRINIC's free pool - **1** /8:
  - ➢ Triggered 'IPv4 Soft Landing Proposal'.

- Last of the five RIRs to start allocating from the final /8 received from the IANA in 2011.

- Changes to assignment/allocation in Phase 1:
  - ➢ Minimum IPv4 allocation for LIRs is a /22
  - ➢ Minimum IPv4 assignment for End Users is a /24.
  - ➢ Maximum IPv4 allocation/assignment is a /13.
  - ➢ Planning window reduced from 12 months to 8 months.
  - • A /12 is reserved for unforeseen circumstances.
  - ➢ Any use of resources outside the region should be solely in support of connectivity back to the AFRINIC region.

- 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-V4-001-DRAFT-01: "IPv4 Soft Landing - SD"

- This proposal updates the current IPv4 Soft Landing Policy (CPM 5.4). The policy describes how AFRINIC should manage allocations/assignments from the last /8 and seeks to limit the maximum allocation size and number of times a member can request this maximum allocation as well as catering for new entrants.

  - Phase 1: maximum allocation changes from /10 to /17.
  - Phase 2: minimum allocation/assignment size is /24 and maximum is /20 per allocation/assignment.
  - No limit on number of requests unless as a member has already received allocations/assignments that are equivalent to the maximum prefix during each phase.

- *Status: Under Discussion - proposal submitted 30 March 2017.*

## AFPUB-2016-V4-001-DRAFT-02: IPv4 Soft Landing BIS.

- This proposal updates the current IPv4 Soft Landing Policy (CPM 5.4) and describes how AFRINIC will manage allocation of IPv4 space from the last /8 allocated by IANA

  - Phase 1: When **1** **/8** remains, max. allocation = **/15 from /10**.
  - Phase 2: When **1** **/10** remains: max. allocation = **/22** & min. **/24**.
  - Allocation period changes to **8 months**.
  - Reserves a **/16** for critical Internet infrastructure and a **/13** for unforeseen circumstances.
  - Makes no distinction between existing & new LIRs or End-Users.

- Status: *Under Discussion - no consensus achieved at last meeting*.

## AFPUB-2016-GEN-002-DRAFT02: Inbound Transfers.

- This proposal creates an opportunity for inbound transfer of IPv4, IPv6 or ASN resources from other RIRs to the AFRINIC service region without allowing transfers out of the continent to other RIR service regions.

  - ➢ Proposal does not provide for outbound transfers which the community has indicated will greatly disadvantage the region.

- Status: *Under Discussion – No consensus at last meeting.*

### AFPUB-2016-V4-003-DRAFT02: IPv4 Resources Transfer Within the AFRINIC Region.

- This proposal defines conditions under which transfers within the AFRINIC service region can occur after the IPv4 pool is exhausted or when AFRINIC can no longer satisfy the need of an organization requesting space.

  - ➢ Both the source entity and recipient must be AFRINIC members.
  - ➢ The source must be the current rightful holder of the IPv4 address resources as recognised by AFRINIC.
  - ➢ AFRINIC has to approve the recipient's need for the IPv4 resources.

- Status: *Last Call – pending Board ratification.*

AFPUB-2016-GEN-001-DRAFT02
Internet Number Resources review by AFRINIC.

- This proposal provides for AFRINIC to conduct routine audits or reviews of resource utilisation of space held by its members.

  ➢ Allows for the recovery of any type of resource where usage is not in compliance with the RSA and/or policy. Recovered resources can be reallocated to other organisations for better usage.

- Status: *Under Discussion – No consensus at last meeting.*

- AFRINIC offers **free** training in IPv6 Deployment and Internet Number Resource Management (INRM).

- 2017 Training Workshops kick off in April:
  - ➢ **22** Countries will host courses.
  - ➢ Heading to Mozambique and Guinea Conakry for the first time ever.

- Training held in over **40** African countries since 2010.

- Over **3,000** engineers trained since 2010.



learn.afrinic.net

- AFRINIC facilitates the FIRE Africa programme.

- Offers Grants and Awards to projects that harness the power of the Internet to improve lives.

- **US$ 252,000** of funding allocated to **13** projects in 2016.

- Two FIRE Africa winning projects also selected as finalists in the Mozilla Equal Rating Challenge:

  - Project Isizwe: Free pubic WiFi and skills development  - **Second Place!**
  - LibreRouter: Low cost wireless router for community networks – **Finalist!**

www.fireafrica.org

- **AIS'17 / AFRINIC-26:** Nairobi, Kenya, 21 May - 2 June 2017.
  - ➢ Training and workshops take place 21- 28 May.
  - ➢ Plenary and policy discussion sessions take place 29 May - 2 June.
  - ➢ Follow/tag us on Twitter: #AISKenya
  - ➢ See you all there!

- **11 AFRINIC-26 Fellows selected:**
  - ➢ **6** women, **5** men.
  - ➢ Burundi, Cameroon, Chad, Ethiopia, Gambia, Lesotho, Mali, Mauritius, Morocco, Somalia, Togo.

# Thank you for your Attention

# Questions?

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