



AFRINIC and IXPs in AFRICA.

By

Keessun Fokeerah
(on behalf of RS Team)



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- Manage the IP Number Resources for its service region
- Implement number resource policies/bylaws

Resource Members are compliant to:

- Registration Service Agreement
- AFRINIC bylaws
- ICP-2 document
- Resource Number Policies
- AFRINIC business rules and procedures

AFRINIC policies related to IPv4 Assignments:

- End User Assignments in AFRINIC service region - 127-afpub-2006-gen-001
- Resource Reservation for Internet Exchange Points - AFPUB-2014-GEN-004-DRAFT-03
- Anycast Resource Assignments in the AFRINIC region – AFPUB-2012-V4-001

- 100% discount on assignment and annual membership fees for IXPs(*conditions apply)
- > 32 IXPs have benefited from this initiative in AFRICA.
- AFRINIC provides assistance to IXPs to fully benefit from this engagement and get IP Resources easier & speedier

Before Policy “Resource Reservation for Internet Exchange Points”:

- All resources were issued from 196.223.0.0/16(Both Peering and Management)
- ASNs were issued from the AFRINIC Inventory(No reservation for specific range)

- A /16 (196.60.0.0/16) IPv4 is now reserved for IXPs for the purpose of **peering** as per ratified policy
- A /16 IPv4 (196.49.0.0/16) is reserved for IXPs for the purpose of **managing** the IXPs
- Adjacent contiguous IPv4 blocks are reserved per IXP(peering and Management) respectively for future use
- 2-byte ASNs are reserved as per ratified policy - AS37769 to AS37887
- Free IPs in 196.223.0.0/16 will be used for regular assignments/allocations
- New Status on WHOIS “POLICY RESERVED”

IXP resources with 100% discount(*conditions apply)

- /24 IPv4 for Peering
- /24 IPv4 for Management
- /48 IPv6 for Peering
- /48 IPv6 for Management
- 2 byte ASN for Peering
- 4 byte ASN for Management

- Are you future proof? Get your IPv6 prefix(es).
- Do you have your resources for Peering and Management respectively?
- Are the IXPs in this room using their peering resources?

For IXPs deploying services around the Exchange Point:

- Eligible to get the Internet Number Resources through other policies
 - IPv4 Address Allocation.
 - End User Assignment.
 - Anycast Resource Assignments.

1.61 /8 IPv4 still available

- What if the IXP is deploying services around the Exchange Point?
- Can this Resource Member get IP addresses from AFRINIC?

> Yes, this is possible.

The IXP will be billed for these resources but will still benefit from the 100% discount for the peering and management IP resources.

- There can be multiple IXPs managed by a single authority
- For each IXP, AFRINIC will approve ASN, /48 IPv6, /24 IPv4 for peering & management respectively
- Conditions of services should be respected.

Documents you need to have in hand:

- ✓ Proof of legal presence in the AFRINIC service region
 - Certificate of Incorporation , Act of Parliament, etc
 - **No founding document?** Another legal entity request with a document signed by the peers at the IXP
- ✓ An IP Addressing Plan detailing your current and 12 months needs.
- ✓ Details on the services you provide to your users
- ✓ Signed MoU with at least 3 peers. Should contain the contact details and ASN for each.
- ✓ Provide clear details on your request.

Note: Publicly available information such as a website with open peering policy details enables 100% discount on fees!

- Via <https://nmrp.afrinic.net>
- Contact details of the administrative, technical & Billing contacts & identify signatory for the contract (Registration Services Agreement)
- State clearly the resources and purpose that you are requesting.
- Know the policy stipulations – if you are asking more than one /24 IPv4 , one /48 IPv6 and one ASN for peering/management, back it up with supporting documentation
- You may also request for renumber to new IXP blocks

- Are you using your own resources from AFRINIC?
- Does your IXP benefit from the management and peering IP resources?
- Ensure contact details are up to date
- Update your account with details such as your website.
- Can request for renumber from the 196.223.x.x/16 prefix

Send your request for additional resources via the MyAFRINIC portal: **<https://my.afrinic.net/>**

- Delayed feedback from requester
- Invalid contact details
- Lack of clear information on:
 - Peering policy(open/free or paid)
 - How the resources shall be used(Management, peering or other services)

AF-IX can encourage all the new IXPs to contact AFRINIC while in their early days setting up.

Usage on the IXP related resources:

- IXP reserved 196.60.0.0/16(Peering): 6 X /24 IPv4
- IXP reserved 196.49.0.0/16(Mgmt) : 34 X /24 IPv4
- Old IXP reserved 196.223.0.0/16: 44 X /24 IPv4
- 2 byte ASN reservation: 4 X 2 byte ASN

Please come & visit the AFRINIC Team at the MS Booth during this week.

Email : *meetingatbooth@afarinic.net*

Staff onsite: *Mr James Chirwa(Hostmaster) &
Mrs Madhvi Gokool(RSM)*

Thank you for your Attention Questions?



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