AFRINIC and IXPs in AFRICA.

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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 - https://www.afrinic.net/library/policies/1829-afrinic-consolidated-policy-manual#s5_6

- Resource Reservation for Internet Exchange Points - https://www.afrinic.net/library/policies/1829-afrinic-consolidated-policy-manual#s11_0

- Anycast Resource Assignments in the AFRINIC region -https://www.afrinic.net/library/policies/1829-afrinic-consolidated-policy-manual#s12_0

- 100% discount on assignment and annual membership fees for IXPs(*conditions apply)

- > 30 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 & 196.49.0.0/16 for 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 are used for regular assignments/allocations
- New Status on WHOIS "POLICY RESERVED"

- 10 IXPs benefitted in the past 12 months since this policy was implemented
- No renumbering request from existing /24s held by IXPs in the 196.223.0.0/16 block

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?

- Update your contact information on the AFRINIC member portal (myafrinic)

- Update your website information on myafrinic/whois db – This will enable us to know who is actually running an IXP

- Report any non-use of IXP resources in your country to hostmaster@afrinic.net .

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.

IPv4 resources are 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 8 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 <u>100% discount on fees!</u>**

- 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): 10 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: 6 x 2 byte ASN

Do all your peers at the exchange point have IPv4 & IPv6?

IPv4 depletion is on its way - encourage your peers at the exchange point to get their own or additional IPv4 & IPv6 resources to facilitate their IPv6 transition

Please book a consultationwith the AFRINIC Team at AIS'17 this week.

Email : *meetingatbooth@afrinic.net*

https://goo.gl/forms/wyn40L1dsN96TU452

Staff onsite: *Keessun Fokeerah & Dev Jeenia (Hostmasters)*

Thank you for your Attention

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