

Resource Transfer Policy – IPv4

AFPUB-2019-GEN-003-DRAFT02



Version 2

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ORGANISED BY



African Network Operators Group

1. Summary of...



...the problem being addressed by this proposal.

The current policy fails to support a two-way Inter-RIR policy, thereby hindering smooth business operation, development and growth in the region. This proposal aims to establish an efficient and business-friendly mechanism to allow number resources to be transferred from/to other regions. This proposal outlines a model in which AFRINIC can freely transfer number resources to/from other regions, i.e. RIPE NCC, APNIC, ARIN and LACNIC. This includes both IPv4 addresses and AS numbers.

2. Summary of...



...how this proposal addresses the problem.

With the exhaustion of IPv4s, several regions have adopted a transfer policy to accommodate the shortage of resources. Number resources are transfer within the region, as well as with other regions.

Such practice is effective and necessary when facing a shortage of resources. This helps facilitate business operation, while reducing costs.

Such Inter-RIR transfer however, is not yet established in AFRINIC. This hinders business operation and development within the African region. The current proposal aims to establish an efficient and business-friendly mechanism to allow number resources to be transferred from/to other regions.

2. Summary of...



...Current Consolidated Policy Manual.

Before moving to illustrate how this new mechanism actually works, let's take a quick look at the situation of the current Consolidated Policy Manual:

Such Inter-RIR transfer, however, is not yet established in AFRINIC.

In Consolidated Policy Manual updated in 22 Feb 2019, only “IPv4 resources transfer within the AFRINIC region” is mentioned.

The consequences include a Negative impact on the Ease of doing business in African in a wake of Tech-driven global economies. Unnecessary strain on business operation and development with/within the African region.

2. Summary of...



...Regarding resource transfer to other regions,

5.5.1.1.3 If an LIR plans to exchange or transfer address space, it needs to contact AFRINIC so that the changes are properly registered.

The LIR remains responsible for all the allocations registered in the AFRINIC database until they have been transferred to another LIR or returned to AFRINIC. LIR's must ensure that all policies are applied.

Highlight:

- The lack of a clear guideline of resources transfer is detrimental to the continent's development. It makes business operation difficult and it can also hinder new business from establishing in the region.
- Also, as Inter RIR policy is enforced in other regions, it is important that AFRINIC keeps up with other RIRs to ensure smooth operation and coordination.

3. Modifications...



CPM 5.7 will be modified by this proposal as follows;

CURRENT

PROPOSED

5.7 IPv4 Resources transfer within the AFRINIC Region

Like the other Regional Internet Registries, AFRINIC will soon exhaust its IPv4 pool. In order to meet the needs of late resource requestors, a transfer policy for IPv4 resources within the region is needed. The goal of this policy is to define conditions under which transfers must occur. The policy solves the issue of an African organization needing IPv4 number resources after the exhaustion of the AFRINIC IPv4 pool or when AFRINIC can no longer satisfy the needs of such an organization.

5.7 IPv4 Resources resource transfer

Like the other Regional Internet Registries, AFRINIC will soon exhaust its IPv4 pool. In order to meet the needs of late resource requestors, a transfer policy for IPv4 resources within and outside the region is needed. The goal of this policy is to define conditions under which transfers must occur. The policy solves the issue of an African organization needing IPv4 number resources after the exhaustion of the AFRINIC IPv4 pool or when AFRINIC can no longer satisfy the needs of such an organization.

3. Modifications...Con'd



CPM 5.7 will be modified by this proposal as follows;

CURRENT

5.7.1 Summary of the policy

This policy applies to an organization with justified need for IPv4 resources that cannot be satisfied by AFRINIC.

5.7.2 IPv4 resources to be transferred - must be from an existing AFRINIC member's account or from a Legacy Resource Holder in the AFRINIC service region.

5.7.3 Conditions on the source of the transfer

5.7.3.1 The source must be the current rightful holder of the IPv4 address resources recognized by AFRINIC, and not be involved in any dispute as to the status of those resources.

PROPOSED

5.7.2 Summary of the policy

This policy applies to any transfer request raised by a resource holder for resource transfer to and from the AFRINIC region.

5.7.2 IPv4 resources to be transferred – any resource holder who posts a transfer request to another party. An agreement of resource transfer shall be provided.

5.7.3. Conditions on the source of the transfer

5.7.3.1 The source must be the current rightful holder of the IPv4 address resources registered with any RIR, shall be in compliance with the policies of the receiving RIR, and shall not be involved in any dispute as to the status of those resources.

3. Modifications...Con'd

CPM 5.7 will be modified by this proposal as follows;

CURRENT

5.7.3.2

Source entities will not be eligible to receive any further IPv4 address allocations or assignments from AFRINIC for a period of 12 months after a transfer approval.

5.7.3.3

Source entities must not have received a transfer, allocation, or assignment of IPv4 number resources from AFRINIC for the 12 months prior to the approval of transfer request. This restriction excludes mergers and acquisitions transfers.

PROPOSED

5.7.3.2

Source entities are eligible to receive further IPv4 allocations or assignments from AFRINIC as long as it complies with current policy.

5.7.3.3

There is no upper limit regarding the amount of transfer, allocation and assignment of IPv4 number resources a source entity can receive as long as the transfer request is carried out under a mutual agreement between the sender and the recipient.

3. Modifications...Con'd



CPM 5.7 will be modified by this proposal as follows;

CURRENT

5.7.4. Conditions on the recipient of the transfer

5.7.4.1 AFRINIC must approve the recipient's need for the IPv4 number resources. In order for an organization to qualify for receiving a transfer, it must first go through the process of justifying its IPv4 resource needs before AFRINIC. That is to say, the organization must justify and demonstrate before AFRINIC its initial/additional allocation/assignment usage, as applicable, according to the policies in force.

PROPOSED

5.7.4. Conditions on the recipient of the transfer

5.7.4.1 A transfer from another RIR to AFRINIC requires a need-base evaluation. AFRINIC must approve the recipient's need for the IPv4 number resources. In order for an organization to qualify for receiving a transfer, it must first go through the process of justifying its IPv4 resource needs before AFRINIC. That is to say, the organization must justify and demonstrate before AFRINIC its initial/additional allocation/assignment usage, as applicable, according to the policies in force.

A transfer from AFRINIC to another RIR must follow the policy of the receiving RIR.

3. Modifications...Con'd

CPM 5.7 will be modified by this proposal as follows;

CURRENT

PROPOSED

5.7.4.2

The recipient must be an AFRINIC member, subject to current AFRINIC policies and must sign the Registration Services Agreement for resources being received.

5.7.4.2

The recipient can be any party who reaches an agreement of resource transfer with the sender.

5.7.4.3

Transferred IPv4 legacy resources will no longer be regarded as legacy resources.

5.7.4.3

Transferred IPv4 legacy resources will no longer be regarded as legacy resources.

3. Modifications...Con'd



CPM 5.7 will be modified by this proposal as follows;

CURRENT

PROPOSED

Non-Existent

5.7.5 Procedure of the resource transfer

5.7.5.1 The transferring party who holds the resources can initiate a transfer request between itself and an external party. If both parties agree, the transferring party will send a request to the RIR with which the resources are registered, using a standard template and submit an official agreement of resource transfer to the involved RIR(s). The transfer shall be in compliance with the policies of the transferring RIR.

3. Modifications...Con'd



CPM 5.7 will be modified by this proposal as follows;

CURRENT

PROPOSED

Non-Existent

5.7.5.2 After the transferring RIR has reviewed the application and deemed that it is appropriate to precede with the transfer, it shall notify the receiving RIR, the transferring party and the recipient.

5.7.5.3 When the receiving RIR approves the transfer, the resources will be transferred to the recipient.

5.7.6 Transfer Statistics

A list of all transfers will be published by AFRINIC on a monthly basis.

4. References

- Inter RIR-policies are adopted in RIPE, APNIC, LACNIC and ARIN. The record of these regions shows that Inter RIR facilitates smooth coordination and operation between RIRs.
- The current proposal's model is based on RIPE's Inter RIR policy at
- <https://www.ripe.net/manage-ips-and-asns/resource-transfers-and-mergers/inter-rir-transfers>
- <https://www.nro.net/wp-content/uploads/NRO-Statistics-2020-Q2-FINAL.pdf>

5. Review History

- Date: 30 Oct 2019

Submitted for discussion:

Version 1: AFPUB-2019-V4-003-DRAFT01

- Date: 13 Aug 2020

Section 5.7.4.1 and Section 5.7.4.3 have been updated.

Version 2: AFPUB-2019-V4-003-DRAFT02

Thank You!!!

Obrigado!!!

Gracias!!!

Merci!!!

شكرا جزيلا!!!

NRO Statistics



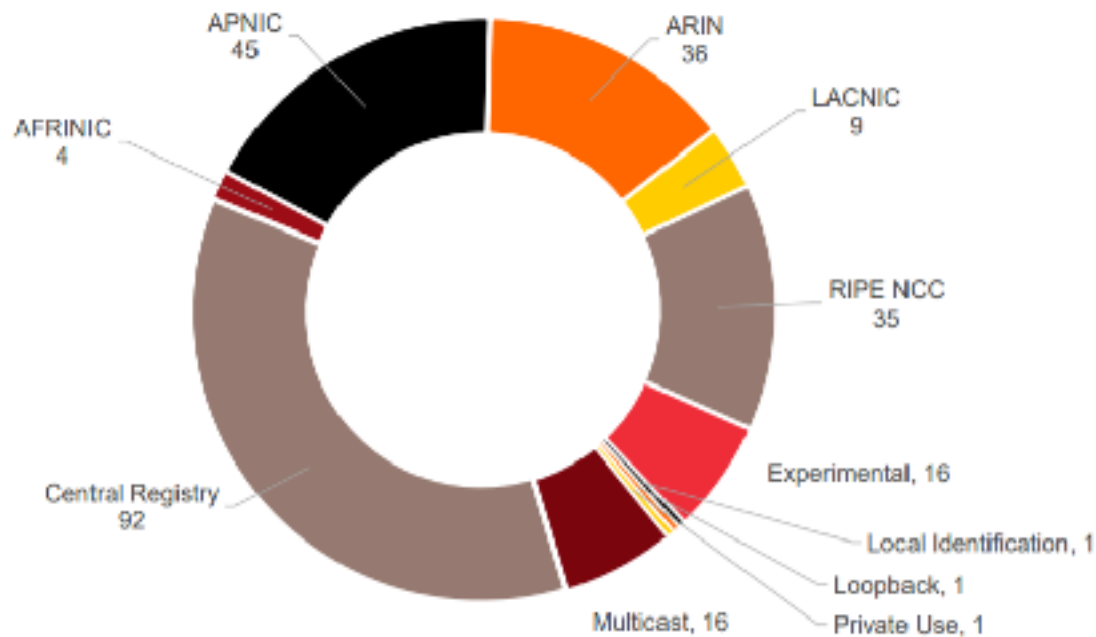
Internet Number Resource Status Report

Prepared by
Regional Internet Registries
AFRINIC, APNIC, ARIN, LACNIC, RIPE NCC

As of 30 June 2020

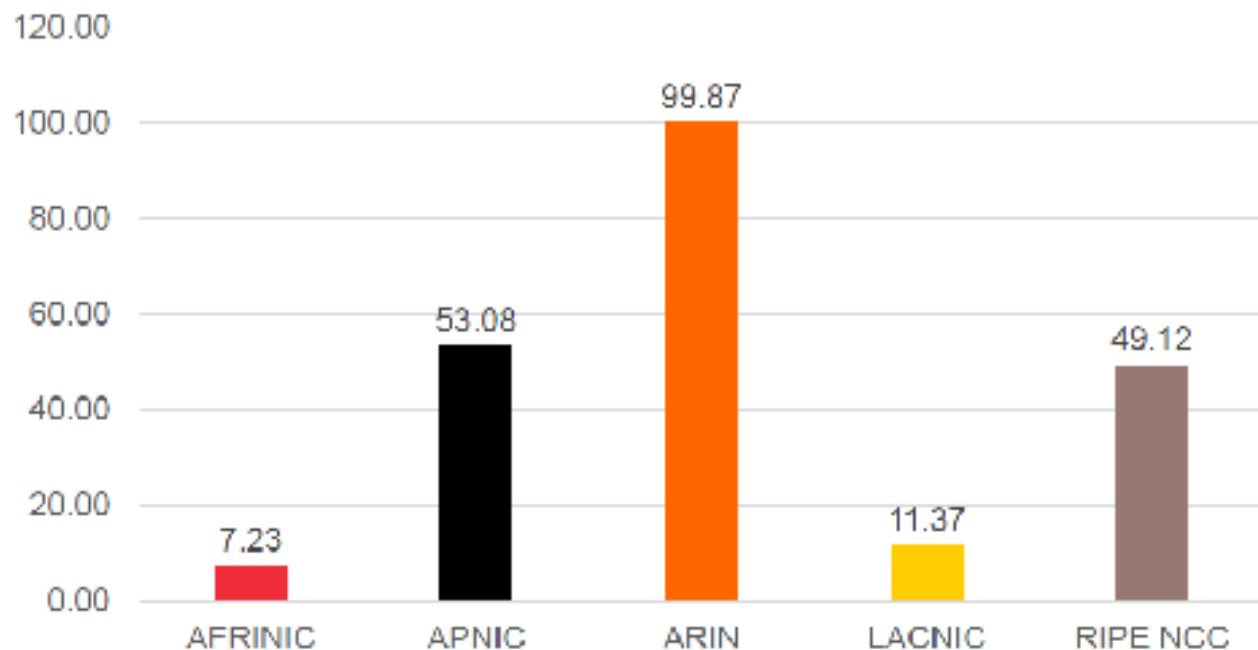
All IPv4 Address Space

Distribution of the 256 /8s



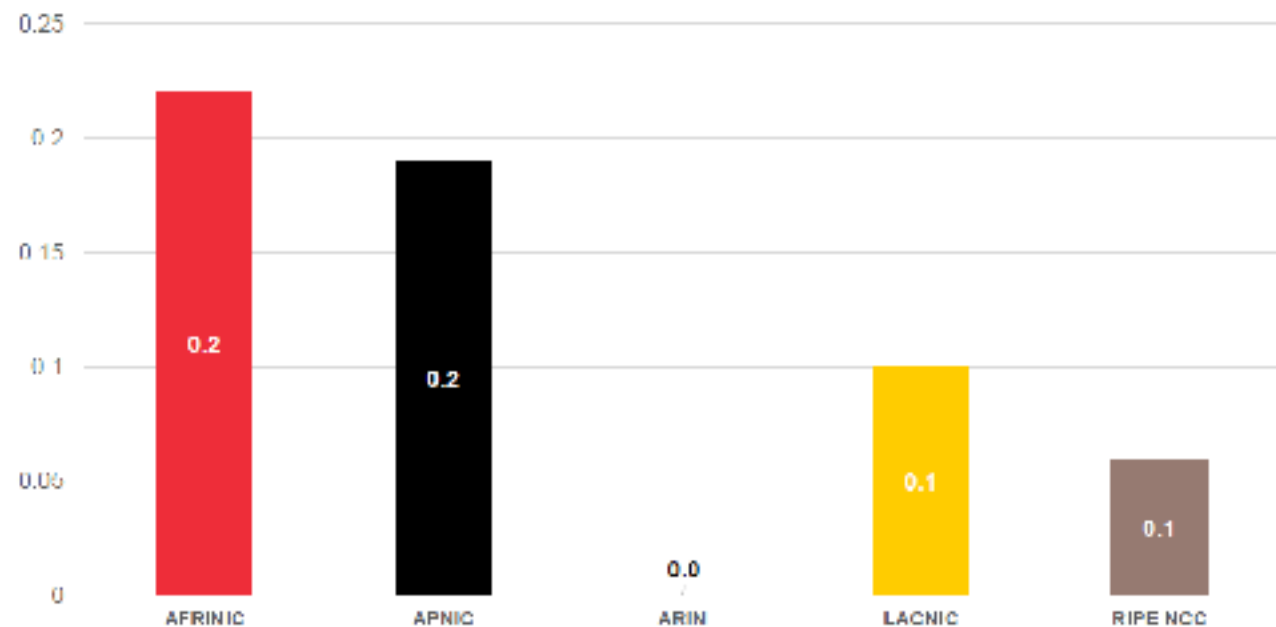
Total IPv4 Addresses Managed by each RIR

In terms of /8s



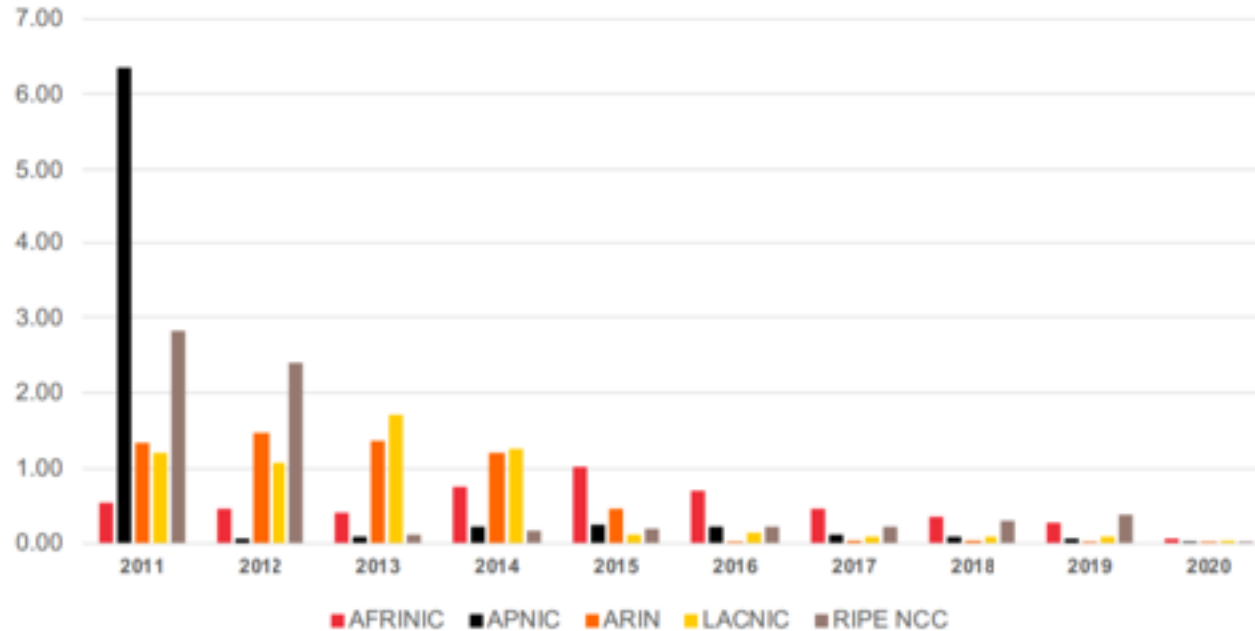
Available IPv4 Space in each RIR

In terms of /8s



IPv4 Space issued by RIRs

In terms of /8s, how much space has each RIR issued per year?

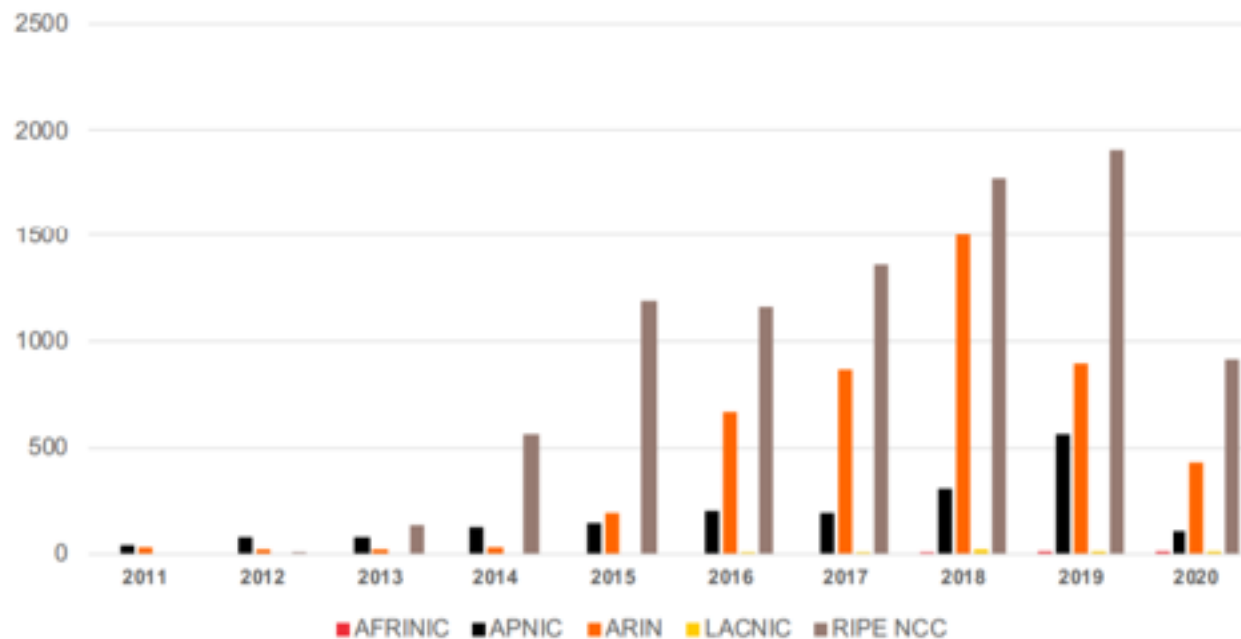


IPv4 Transfers

(exclusive M&A)

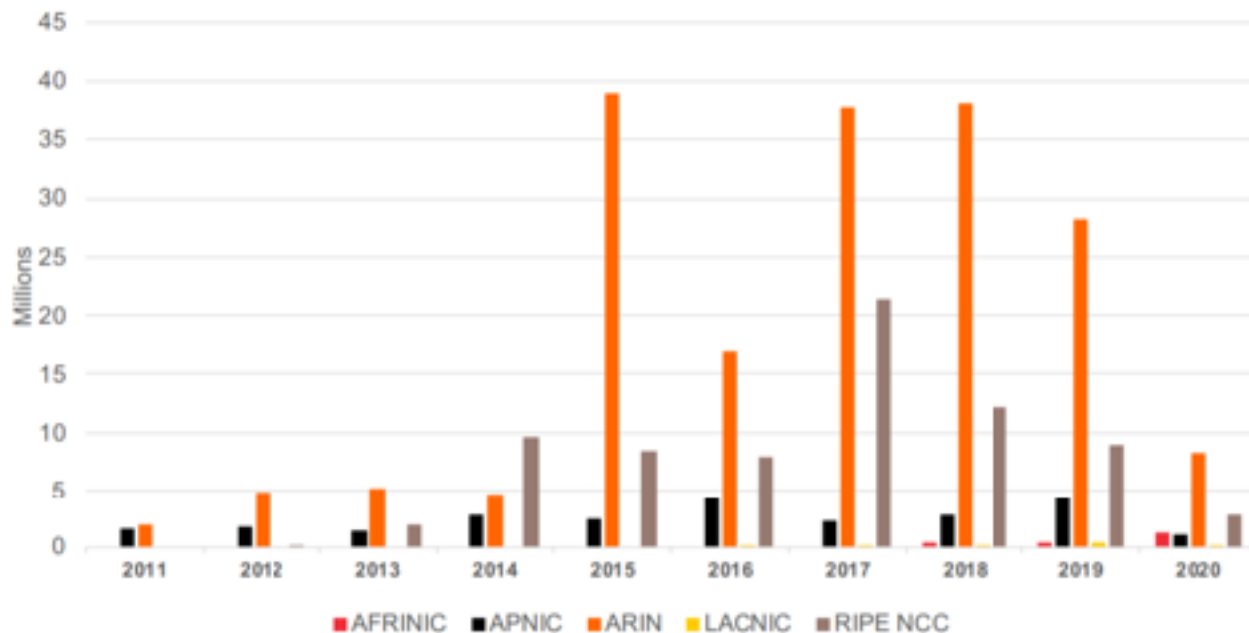
Intra-RIR IPv4 Transfers

Number of transfers per year



Intra-RIR IPv4 Transfers

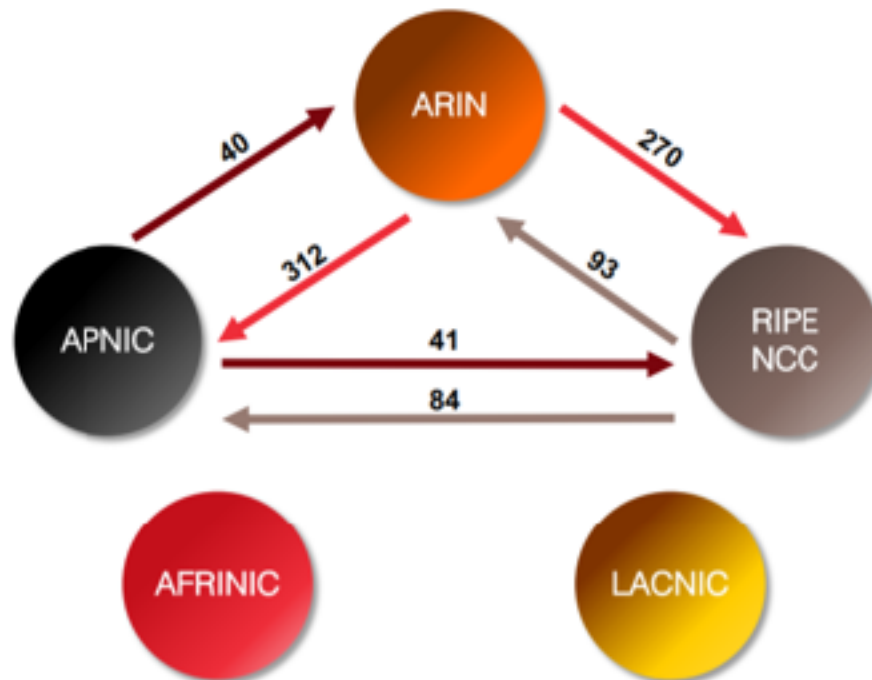
Number of addresses transferred by year



AFRICA
INTERNET
SUMMIT'20
ONLINE
14 -18 SEPTEMBER 2020

Inter-RIR IPv4 Transfers

Total number of IPv4 transfers between RIRs



Inter-RIR IPv4 Transfers

Total number of IPv4 addresses transferred between RIRs

