



**RIPE
NCC**

Registration Services Update

IPv6 Roadshow | Riyadh, SA

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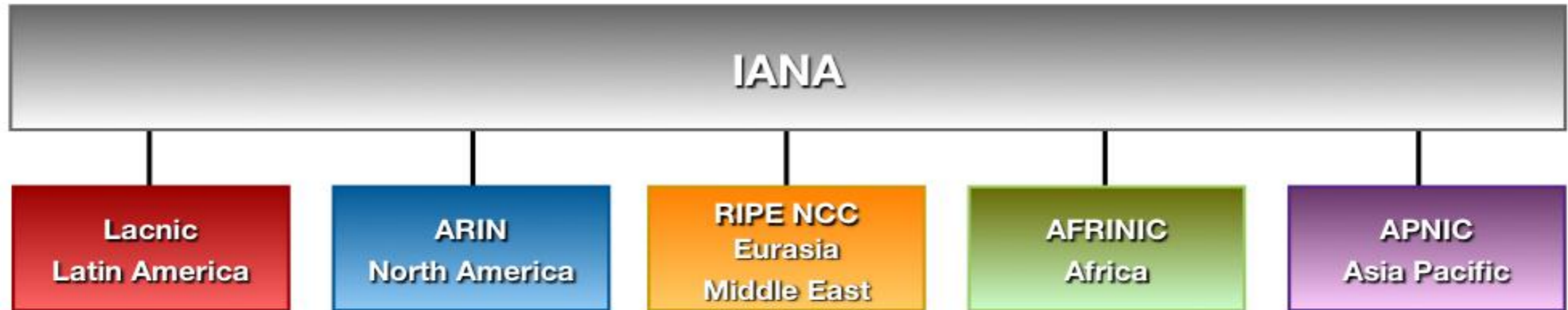
- Regional Internet Registries and the RIPE NCC
- IPv4: where are we now?
- IPv4 Allocation Transfers
- IPv6 distribution
- IPv6 in the Middle East



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Regional Internet Registries and the RIPE NCC

- Five RIRs worldwide:
 - Manage the allocation and registration of Internet number resources within their service regions
 - Not-for-profit organisations
 - Funded by membership fees
 - Neutral, impartial, open, transparent
 - Policies decided by their regional communities



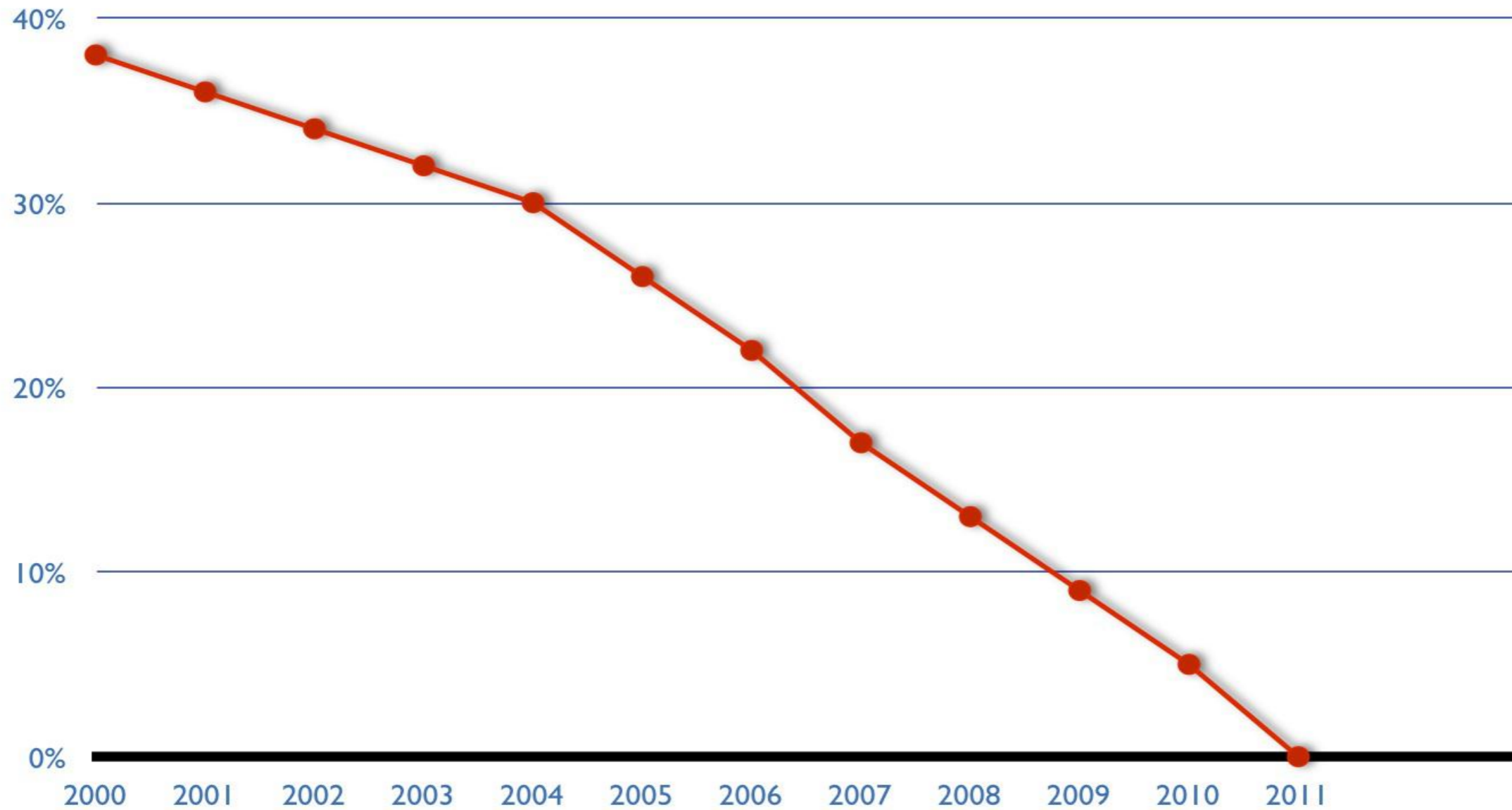
- Serves Europe, the Middle East and parts of Central Asia
- Created by the RIPE community in 1992, based in Amsterdam
- Provides technical and administrative support to the RIPE community
- Over 10,000 members in 76 countries
- Provides Internet number resource allocations and assignments, registration services and coordination activities

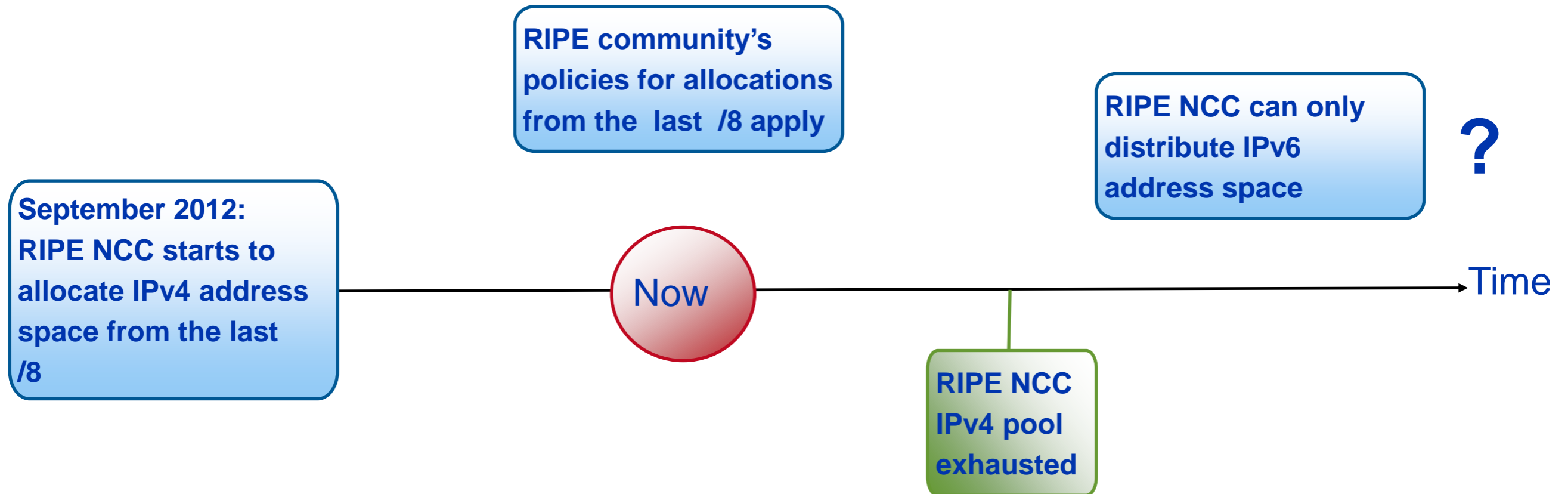
- A collaborative forum open to anyone interested in the way the Internet is managed
- Includes businesses, government, regulators, law enforcement agencies, civil society, academia, and private citizens
- Participation through mailing lists and by attending meetings
- RIPE Working Groups discuss specific topics: Address Policy, IPv6, RIPE NCC Services (and many others)

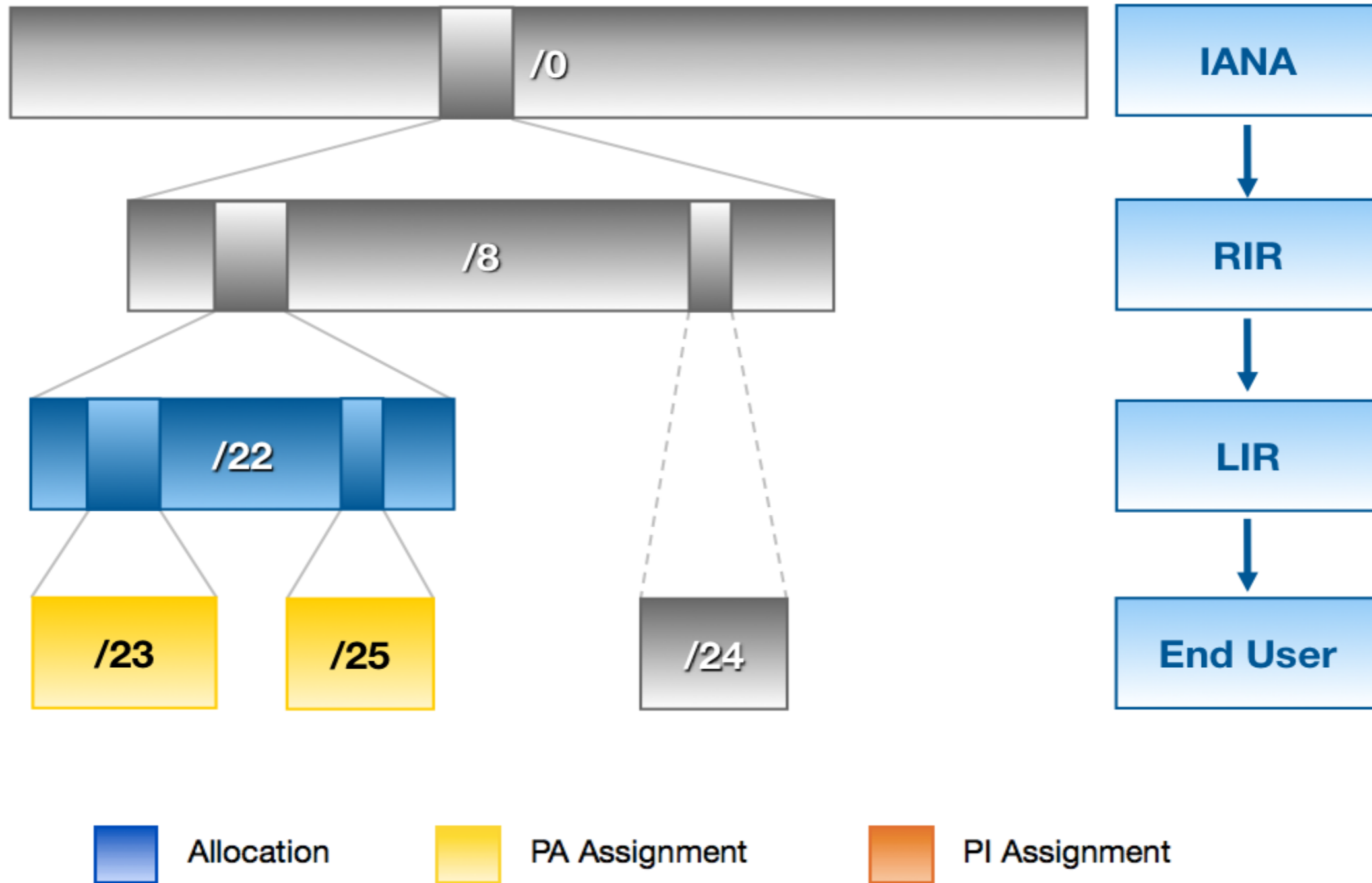


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**IPv4:
Where are we now?**

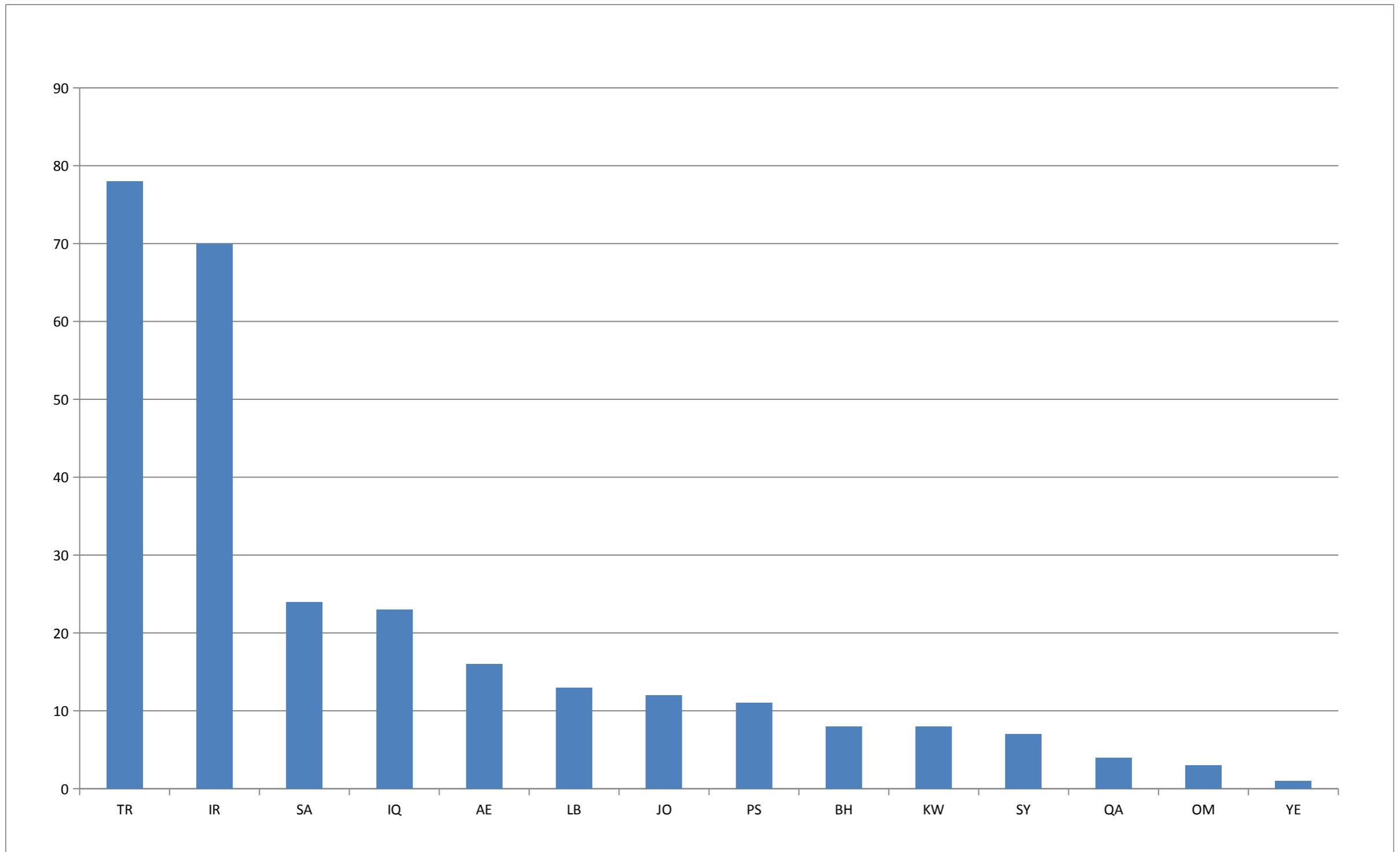




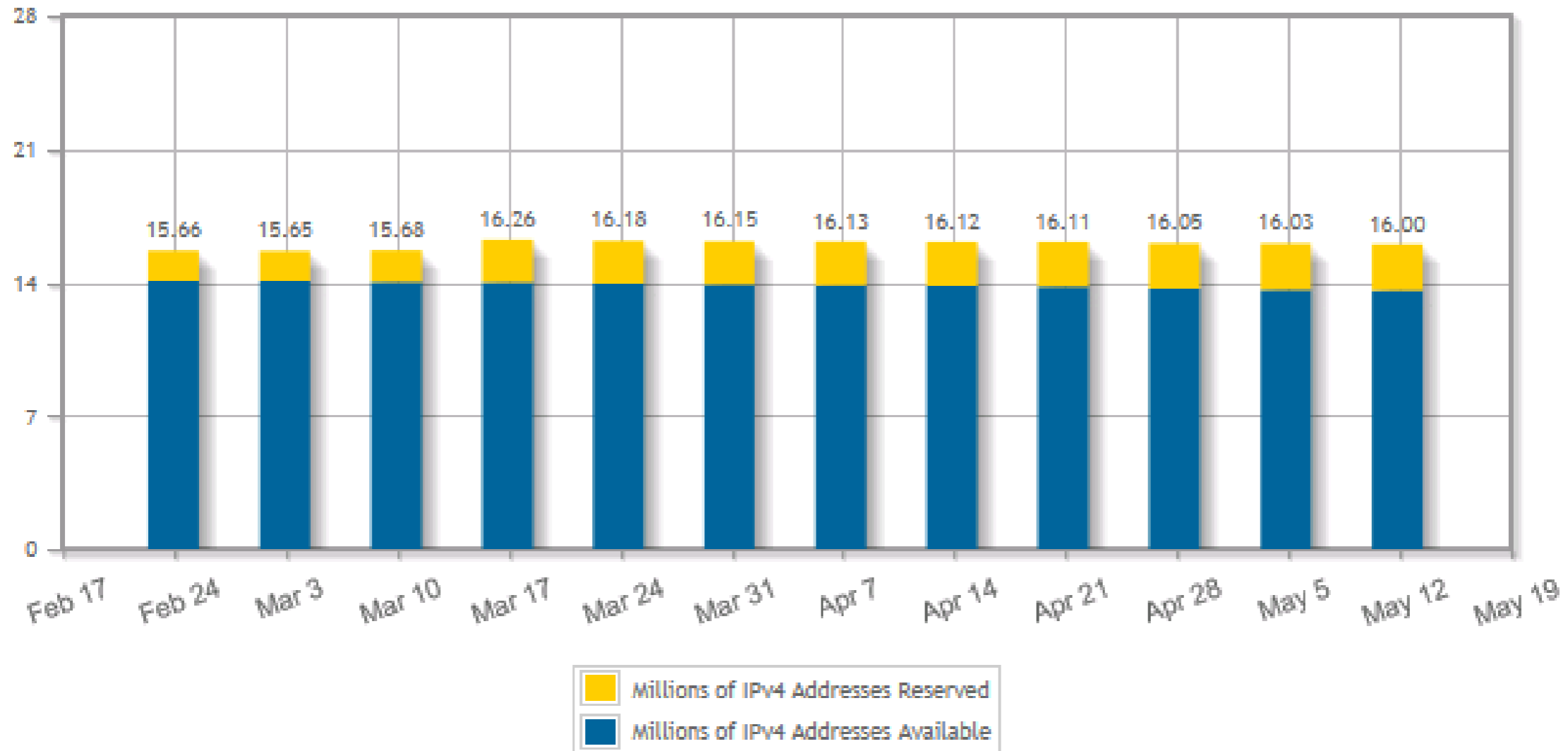


- Each member can get one final /22 allocation
 - Both new and existing members
 - As long as supplies last
 - 16,000 x /22s in a /8
 - Any returned address space goes into the free pool
- Only if the member already holds an IPv6 allocation

/22 IPv4 Allocations by Country



RIPE NCC IPv4 Pool – Last 12 Weeks



<http://www.ripe.net/internet-coordination/ipv4-exhaustion/ipv4-available-pool-graph>



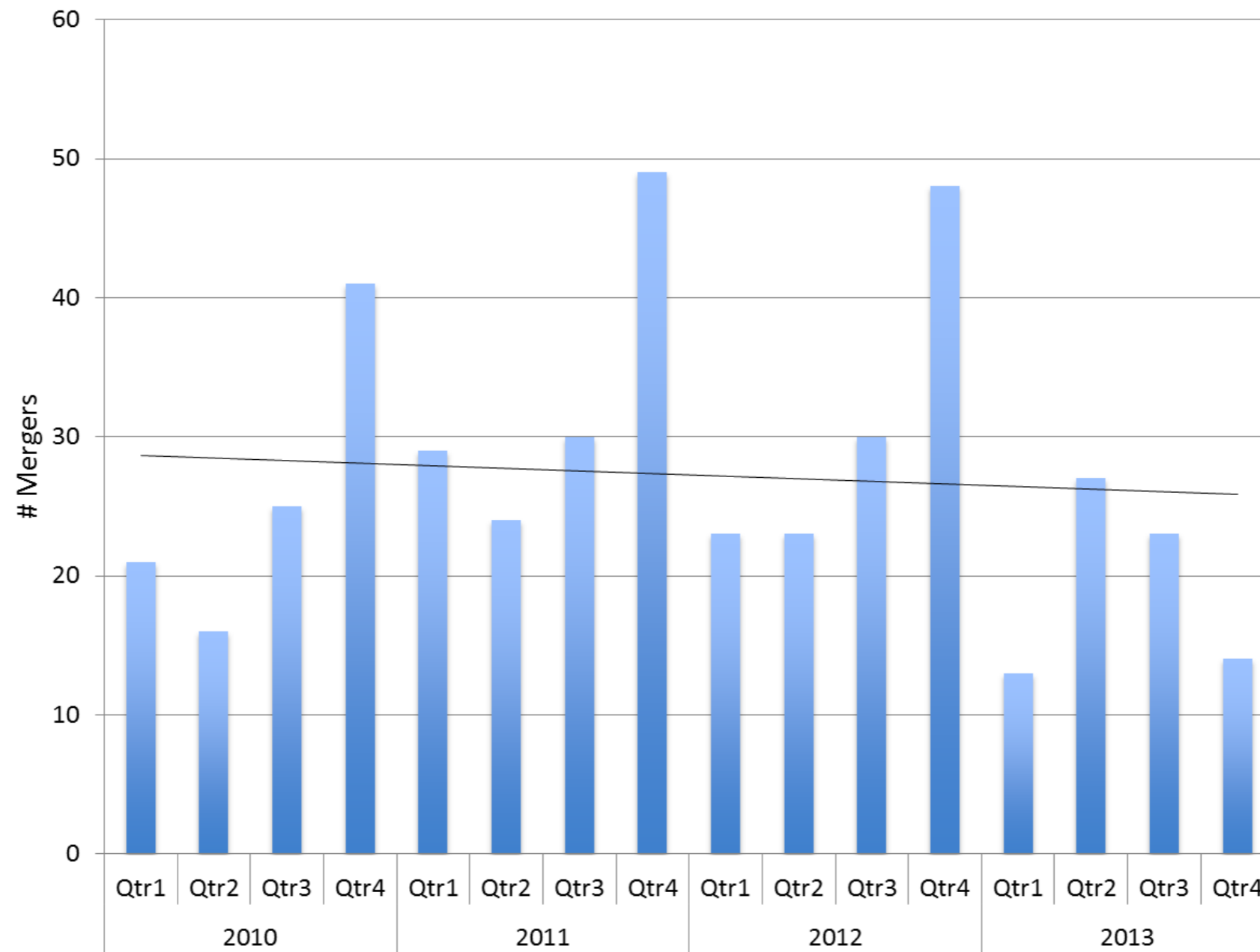
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IPv4 Allocation Transfers

- Two different types of transfers
 - Mergers and acquisitions
 - Transfers of allocations using the policy

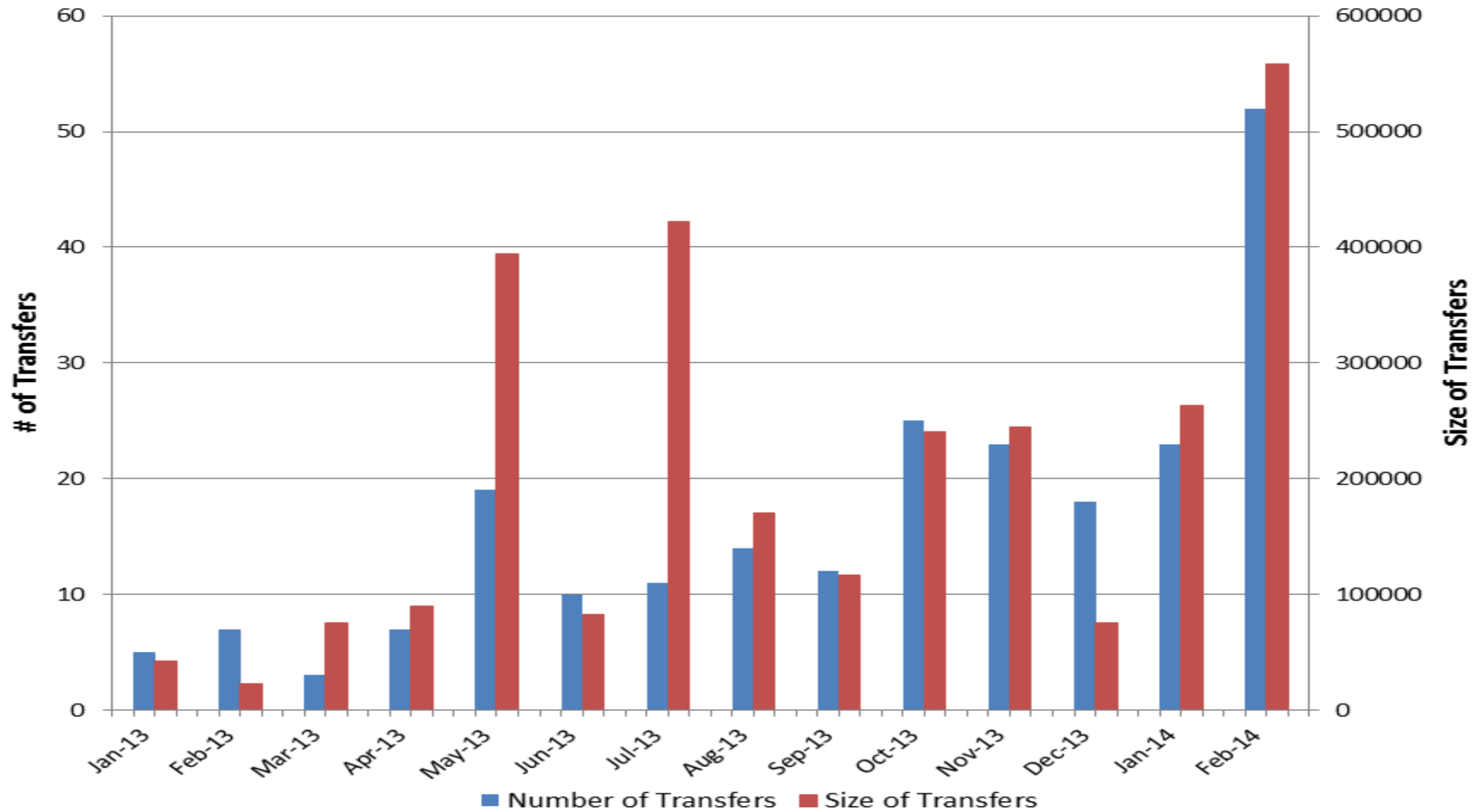
- If an organisation (or part of it) is being sold, the Internet number resources in use by its network can be transferred
- Documentation requested:
 - Merger/purchase agreement
 - Company registration papers for both parties
 - New “Independent Assignment Request and Maintenance Agreement” (only for Independent Resources)
- Based on ripe-595

Mergers completed



- Policy requirements
 - Transfers between LIRs only
 - The LIR must confirm it will make assignment(s) from the allocation
 - Permanent or temporary
 - List of allocations transferred published
- Documentation requested
 - Signed RIPE NCC Transfer Agreement
 - Company registration papers for both parties
- Based on ripe-606

Transfers completed



- Enables LIRs looking to transfer allocations to find receiving parties
- LIRs can also request resources
- Member-only service through the LIR Portal
- The RIPE NCC has no interest in financial transactions
- Transfers must follow transfer policy in ripe-606

My LIR

- General Information >
- Billing Details >
- LIR Contacts >
- My Location >
- Communication Preferences >
- Manage Users >
- Add Users >

Resources

- IP Analyser 2 >
- IPv4 >
- IPv6 >
- ASN >
- Request Forms >
- Object Editors >
- IPv4 Transfer Listing Service >

Resource Certification

- Dashboard >
- ROA Configuration >
- History >

IPv4 Transfer Listing Service

The IPv4 Transfer Listing Service is a platform that enables RIPE NCC members to list and exchange the IPv4 address space they hold and no longer need. This can be transferred between RIPE NCC members as described in "IPv4 Address Allocation and Assignment Policies for the RIPE NCC Service Region". More information about transfers of IPv4 address space can be found [here](#).

Before any resources can be transferred the receiving LIR must send an [initial/additional allocation form](#) to the RIPE NCC for [pre-approval](#). The request must state the listing service is being used and the desired allocation size.

By using this service you explicitly express your agreement with the [IPv4 Transfer Listing Service Terms and Conditions](#).

[Edit existing offer](#)

[Edit existing request](#)

Offered IPv4 Addresses

▶ /21 (3)

Requested IPv4 addresses

▶ /13 (1)

▶ /14 (1)

▶ /16 (6)

▶ /17 (2)

▶ /18 (10)

Feedback

Request Unused IPv4 Address Space

The IPv4 Transfer Listing Service enables RIPE NCC members to list and exchange the IPv4 address space they hold and no longer need. For more information about this service, please see the IPv4 Transfer Listing Service [FAQs](#).

My Contact Details

Name

Email

Contact details

If you would like to transfer, please contact me for the details.

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Requested IP Allocation

Current request There is **no request** listed for your registry.

Allocation size

Transfer duration

Temporary
 Permanent

Feedback

- Some members may decide to use a broker to facilitate the transfer process
- Listing “recognised brokers” on the website
 - Brokers who have signed an agreement to follow
 - RIPE Policies
 - RIPE NCC procedures

<http://www.ripe.net/lir-services/resource-management/ipv4-transfers/brokers>

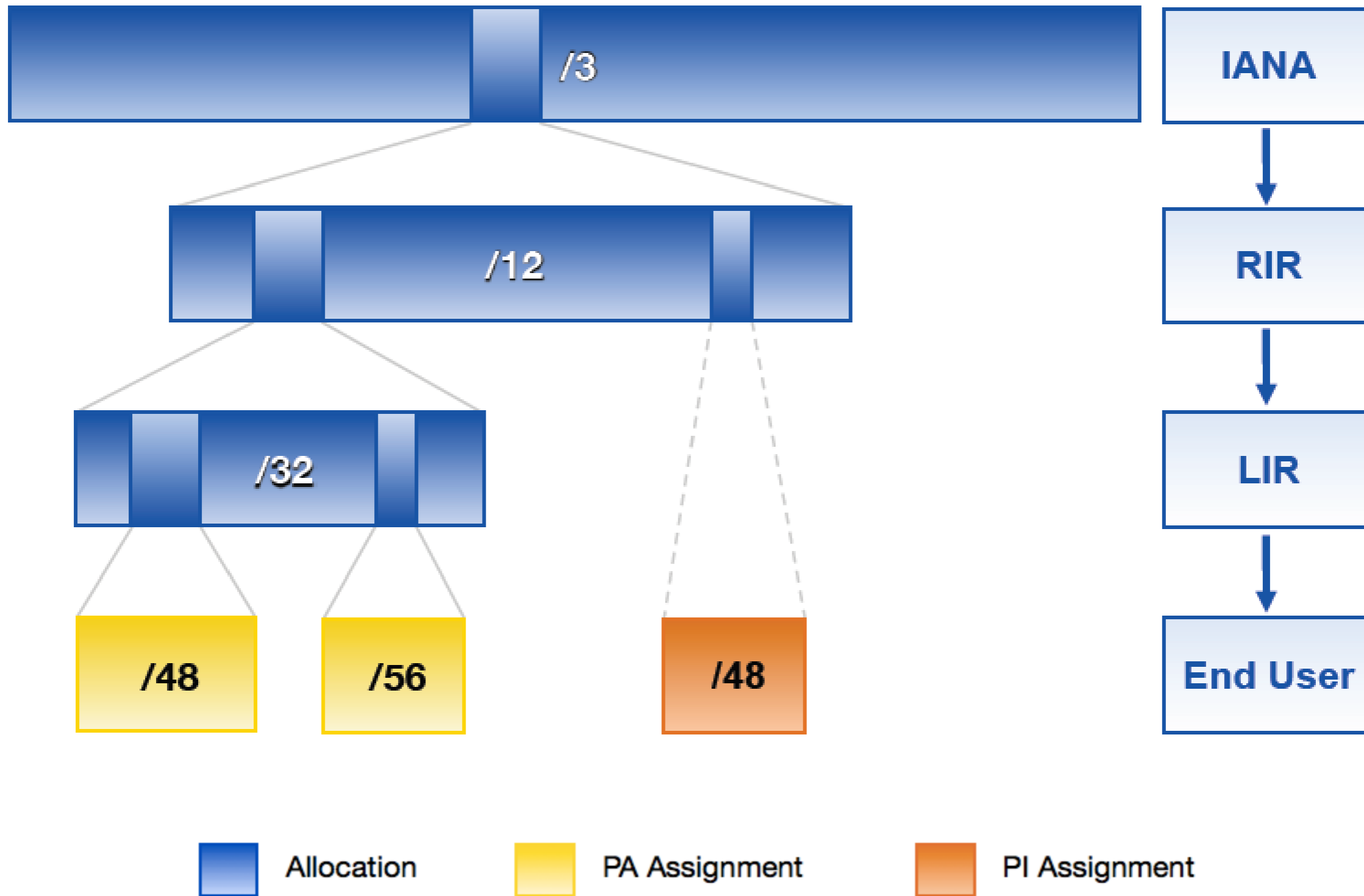
- Ensuring that transfers follow RIPE Policy
- Supporting our members through the transfer process
- The RIPE NCC has no interest in financial transactions
- Our ultimate priority is keeping the registry up to date

- 2012-02 (Inter-RIR Transfers)
- 2014-01 (Abandoning minimum IPv4 Allocation size)
- 2014-02 (Allow IPv4 PI transfer)
- 2014-04 (Relaxing IPv6 Requirement for Receiving Space from the final /8)



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IPv6 Distribution



- To qualify, an organisation must:
 - Be a member of the RIPE NCC
 - Have a plan for making assignments within two years
- The minimum allocation size is a /32
 - Up to a /29 without additional justification
 - The initial /32 can be extended up to a /29 on request

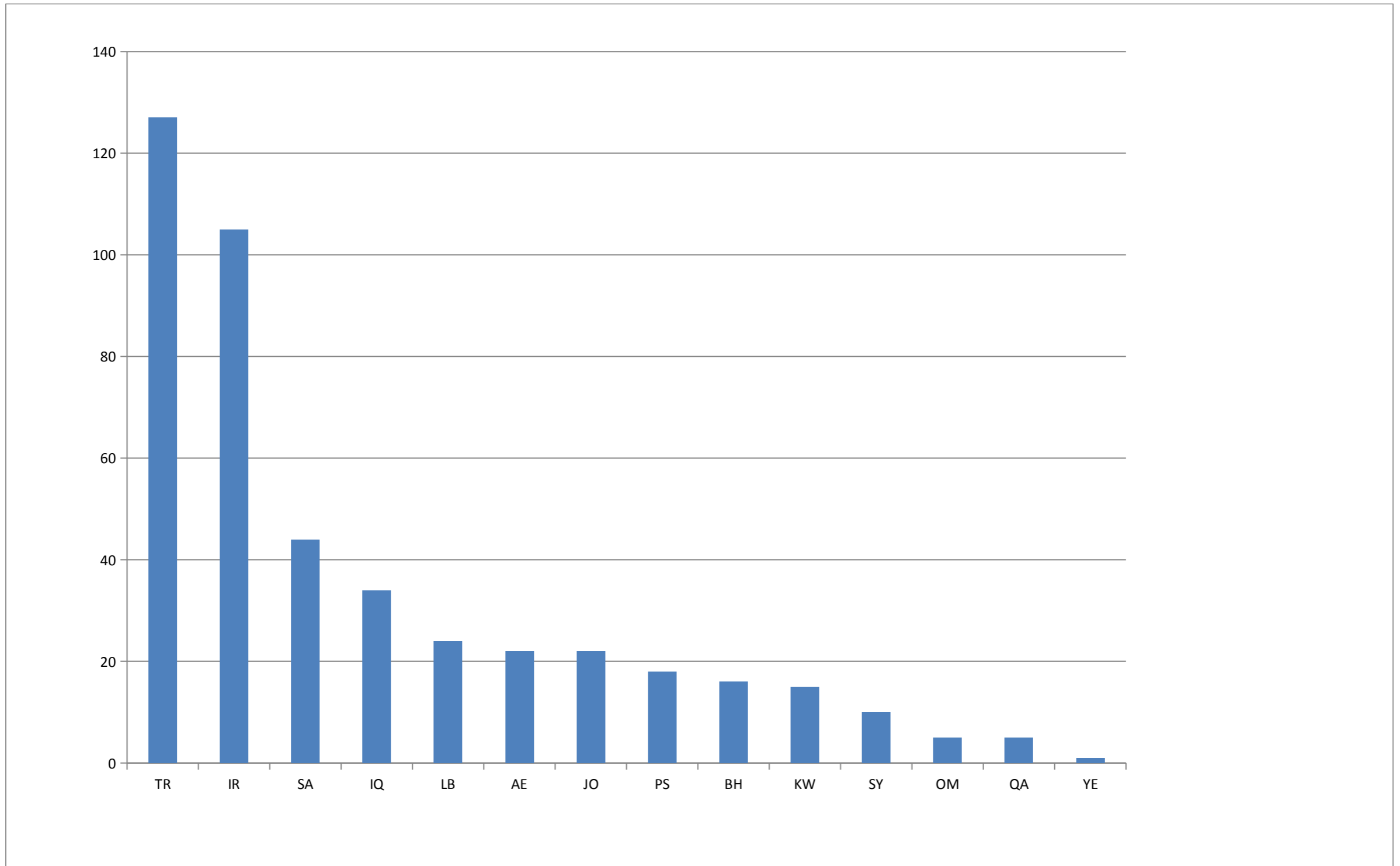
- To qualify, an organisation must:
 - Meet the contractual requirements for Provider Independent resources
 - LIRs must demonstrate special routing requirements
- The minimum allocation size is a /48
- PI space cannot be used for sub-assignments
 - Not even one IP address



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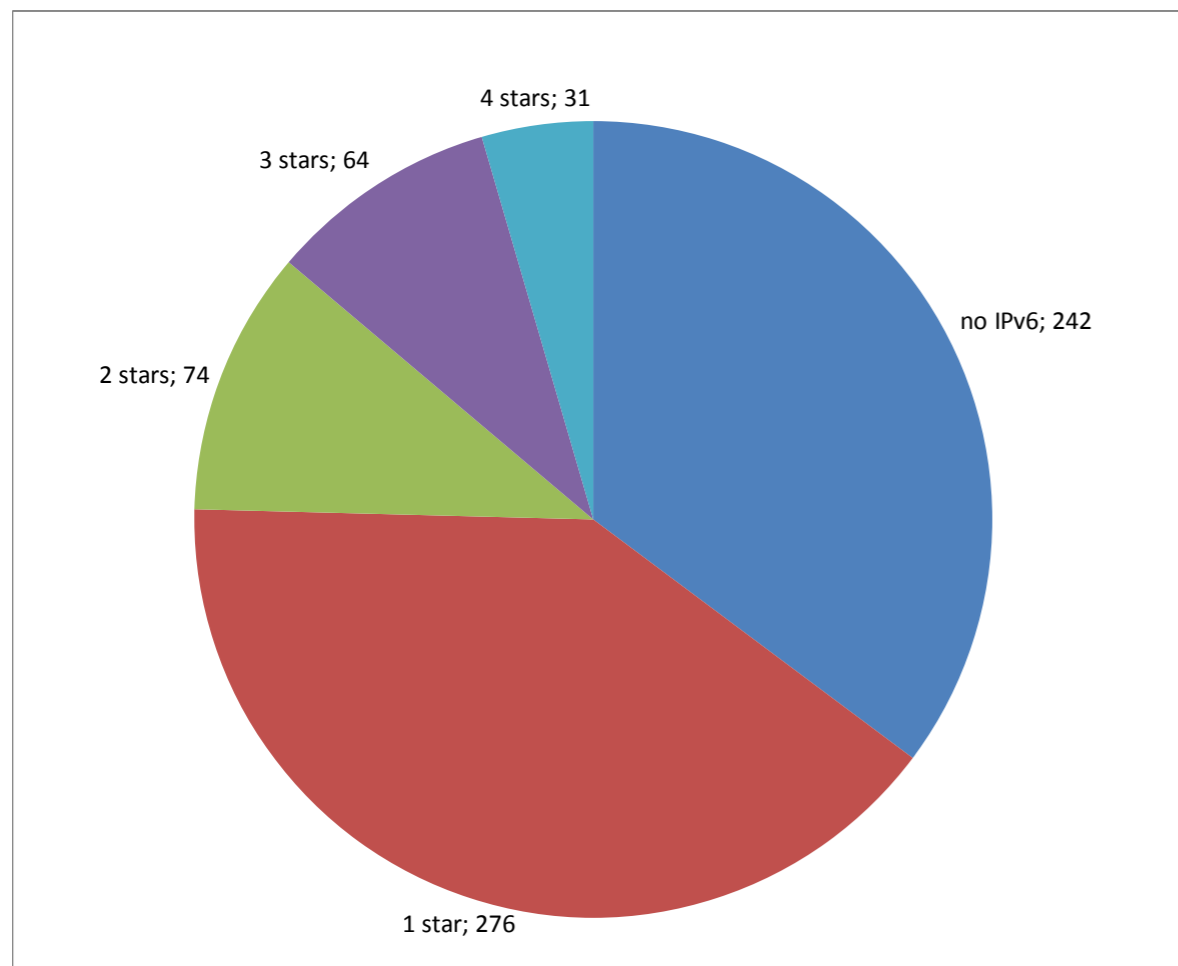
IPv6 in the Middle East

IPv6 Allocations by Country

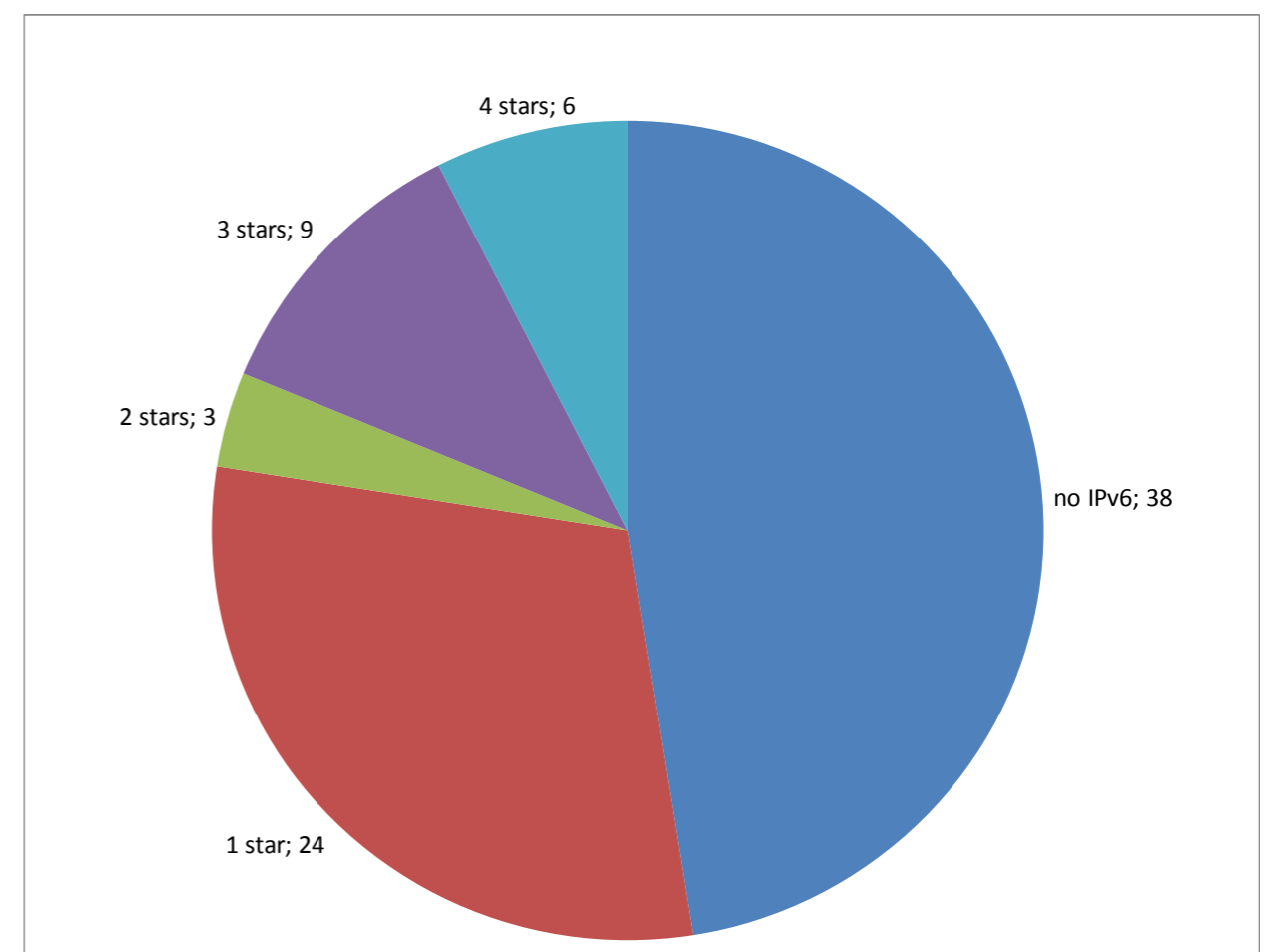


- A rating system that awards “stars” to members based on the steps they have taken towards IPv6 deployment
- A member scores one star each for:
 1. Holding an IPv6 Allocation
 2. Announcing the IPv6 Allocation in BGP
 3. Registering a route6 object in the RIPE Database
 4. Setting up reverse DNS for the IPv6 Allocation
 5. Offering content or access over IPv6
- IPv6 RIPEness statistics: <http://ripeness.ripe.net/>

Members in the Middle East



Members in Saudi Arabia



The IPv4 address pool is depleted – the RIPE NCC is now allocating from the final /8

IPv6 deployment throughout the region is more important than ever, and is clearly taking off

I can help you to fill out the IPv6 allocation request and with any other RIPE NCC related issues – come and see me at the RIPE NCC Service Centre!

Questions?

