



# Spencer Payton

## IP Resource Analyst

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- Regional Internet Registries and the RIPE NCC
- IPv4: Where are we Now?
- IPv6 Distribution
- IPv6 in the Middle East



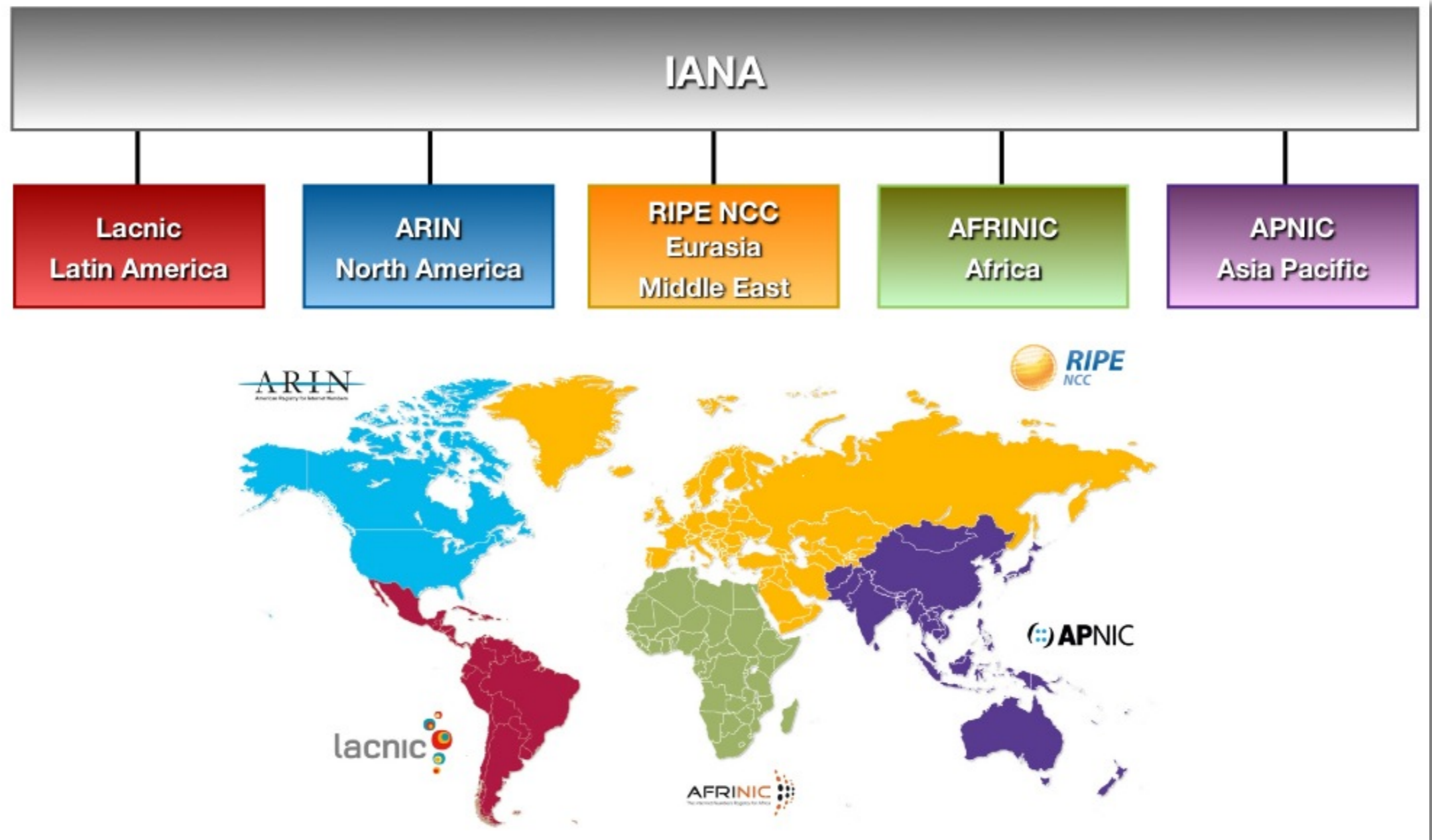
## Regional Internet Registries and the RIPE NCC

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**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 through an open, transparent and bottom-up process



- 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 11,000 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)

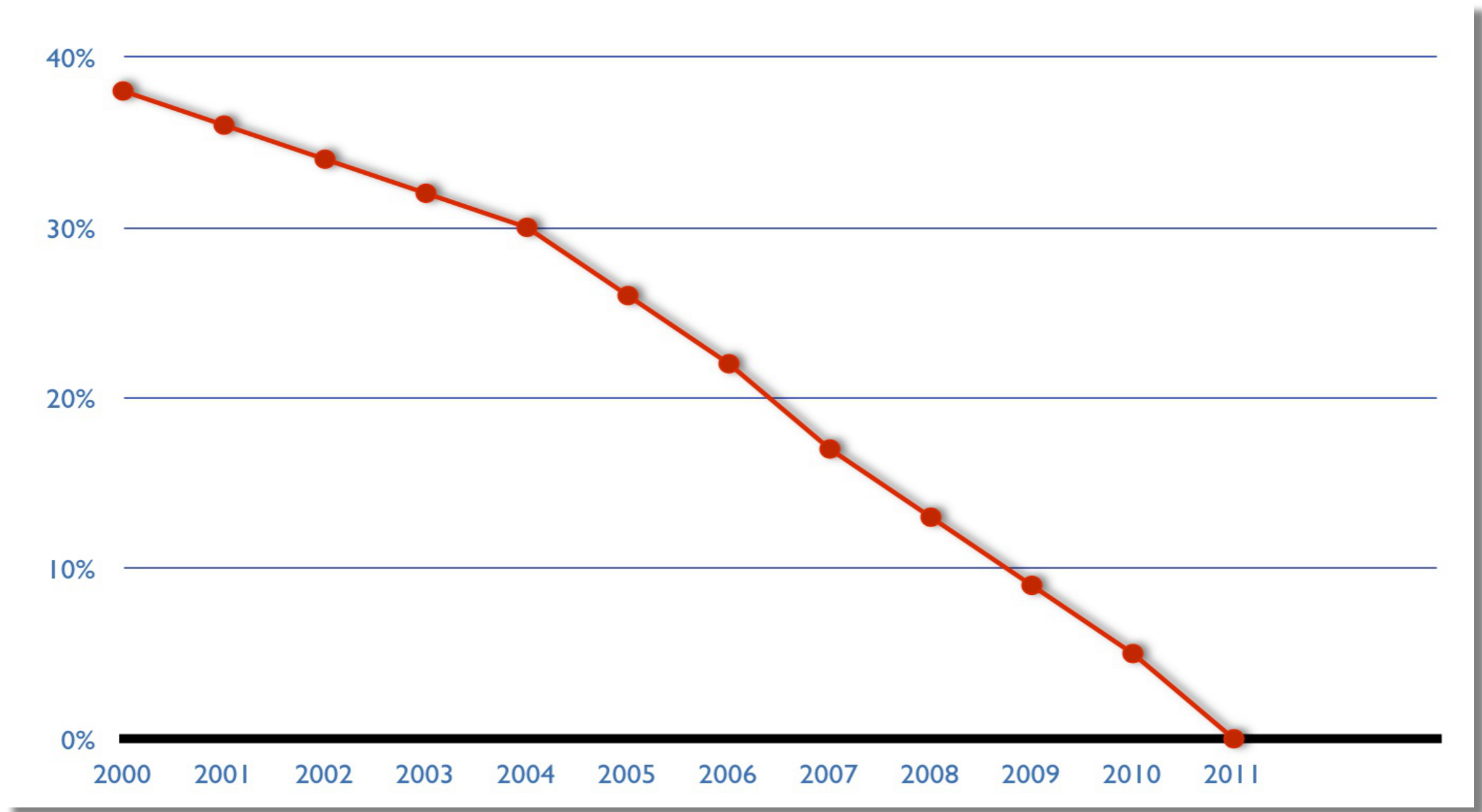


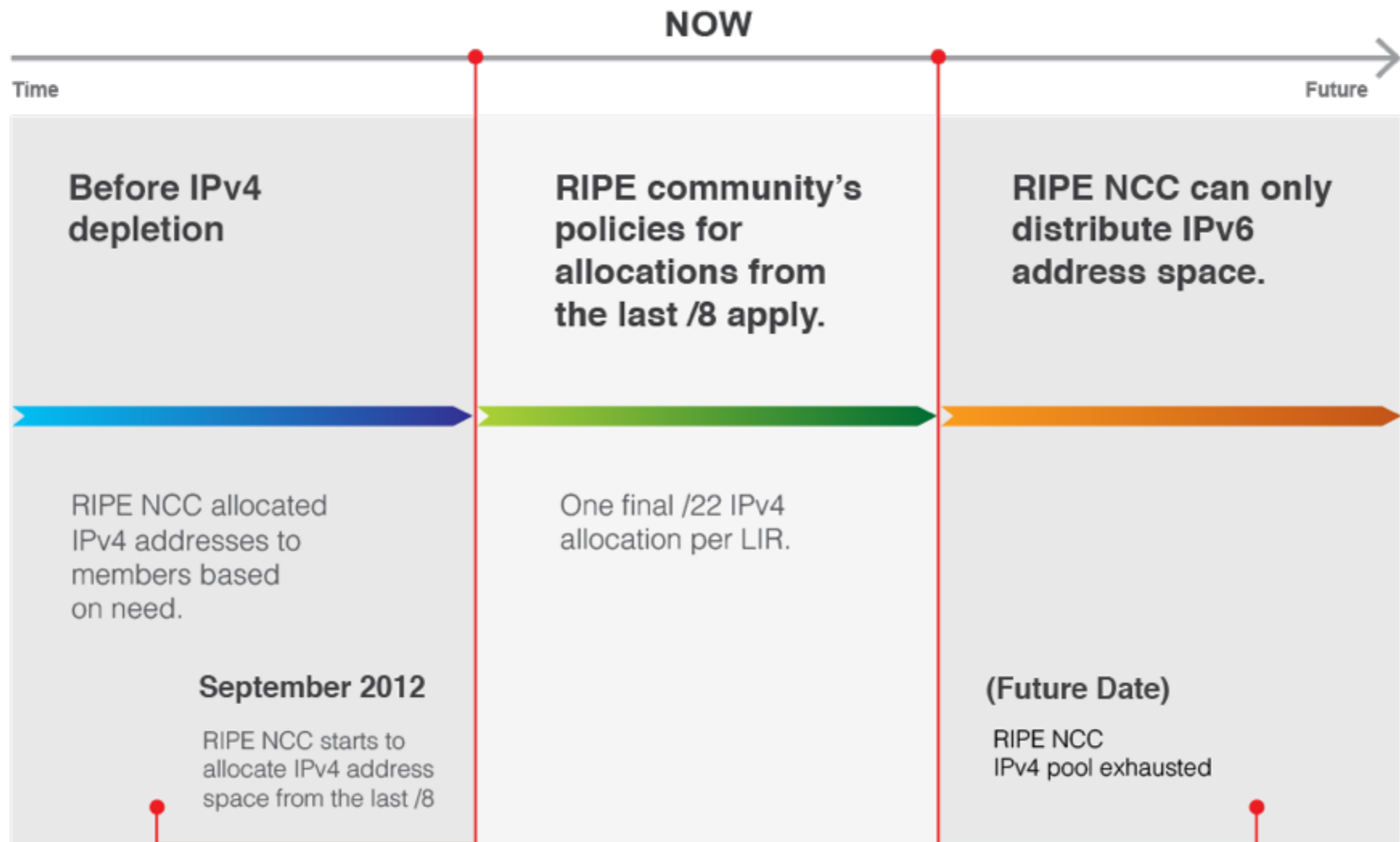
## IPv4: Where are we Now?

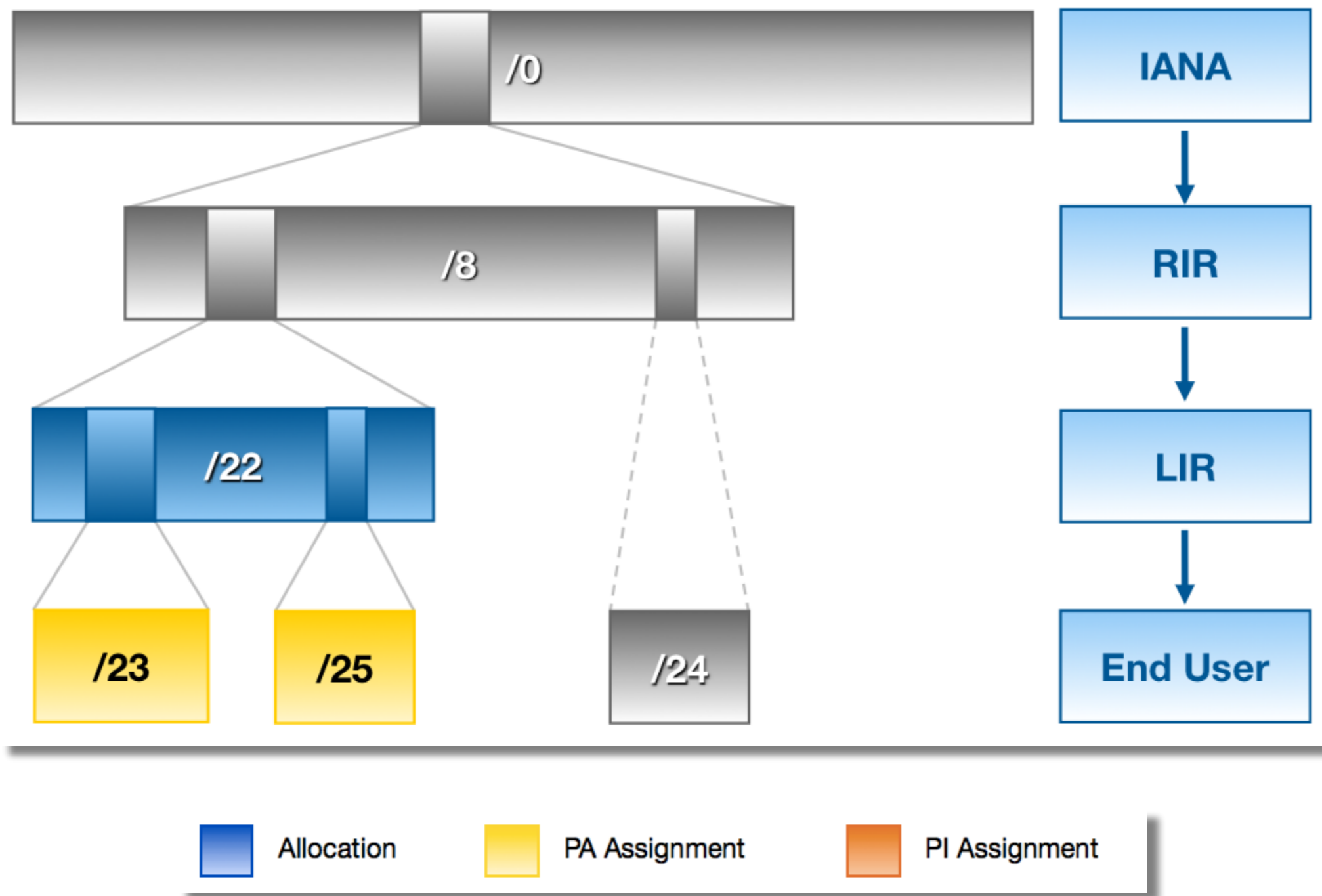
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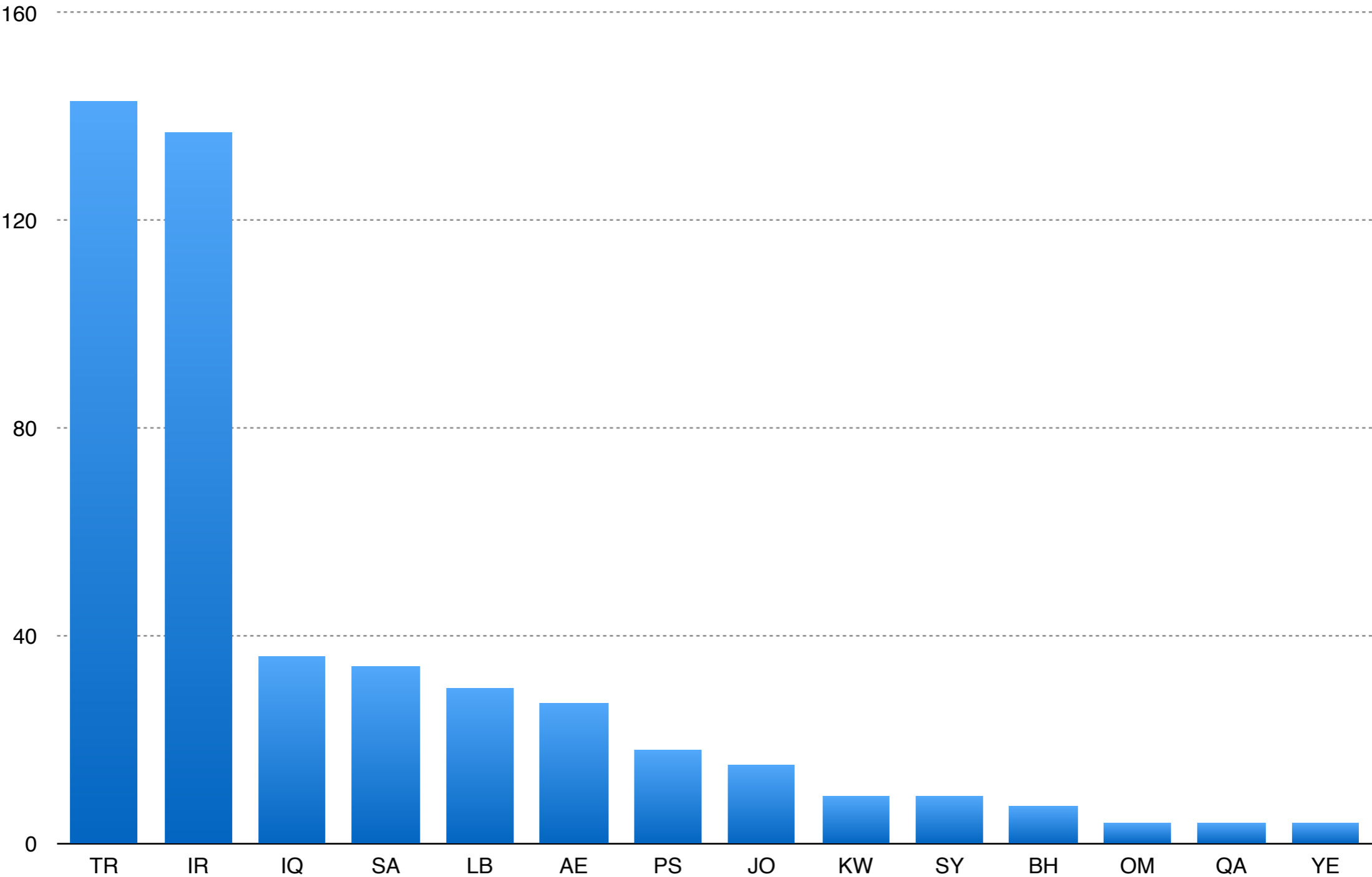
**RIPE**  
NCC

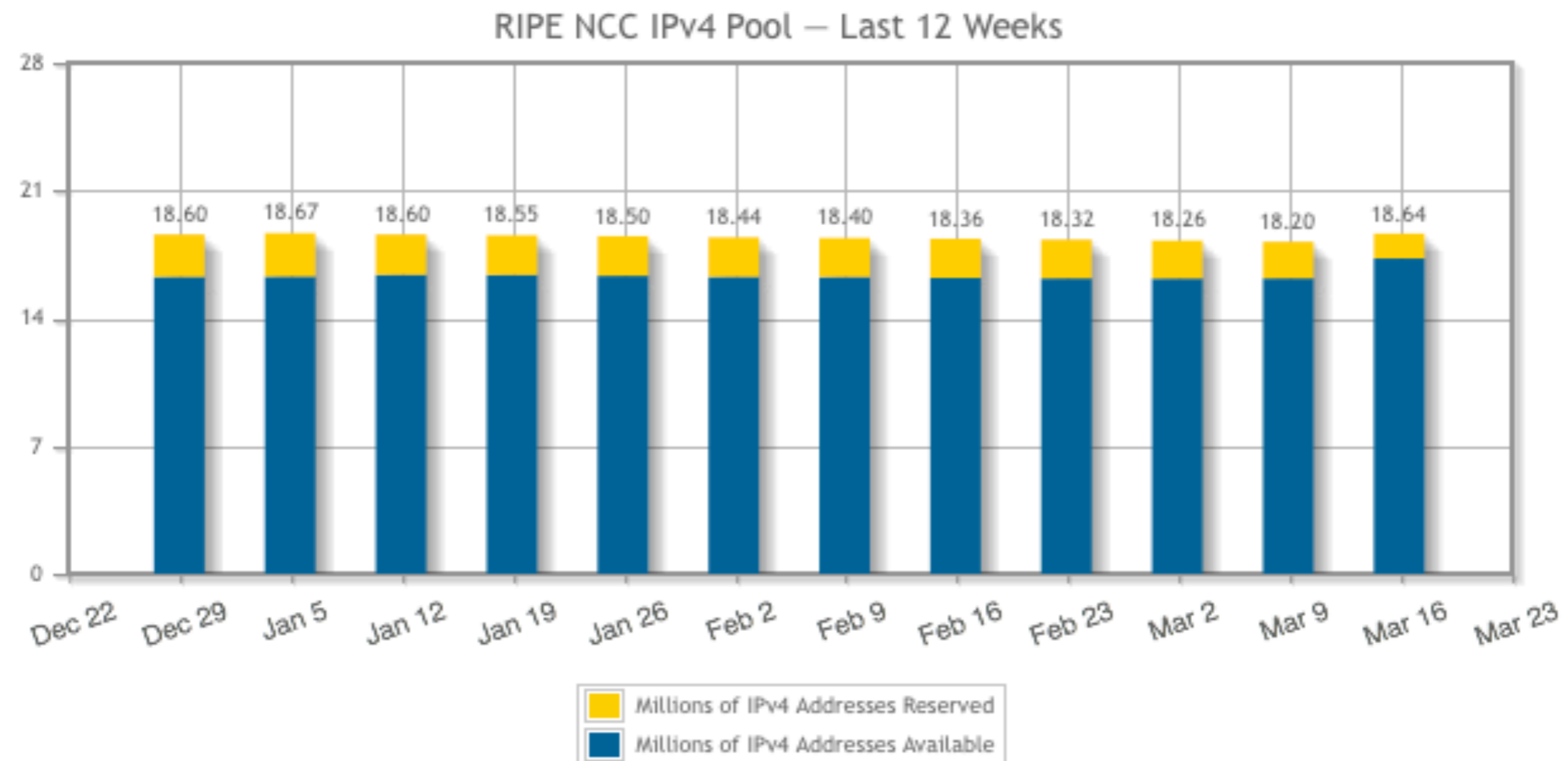






- Each member can get one final /22 allocation
  - Both new and existing members
  - As long as supplies last
  - 16,000 x /22s in a /8
  - Any returned address space goes into the free pool





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

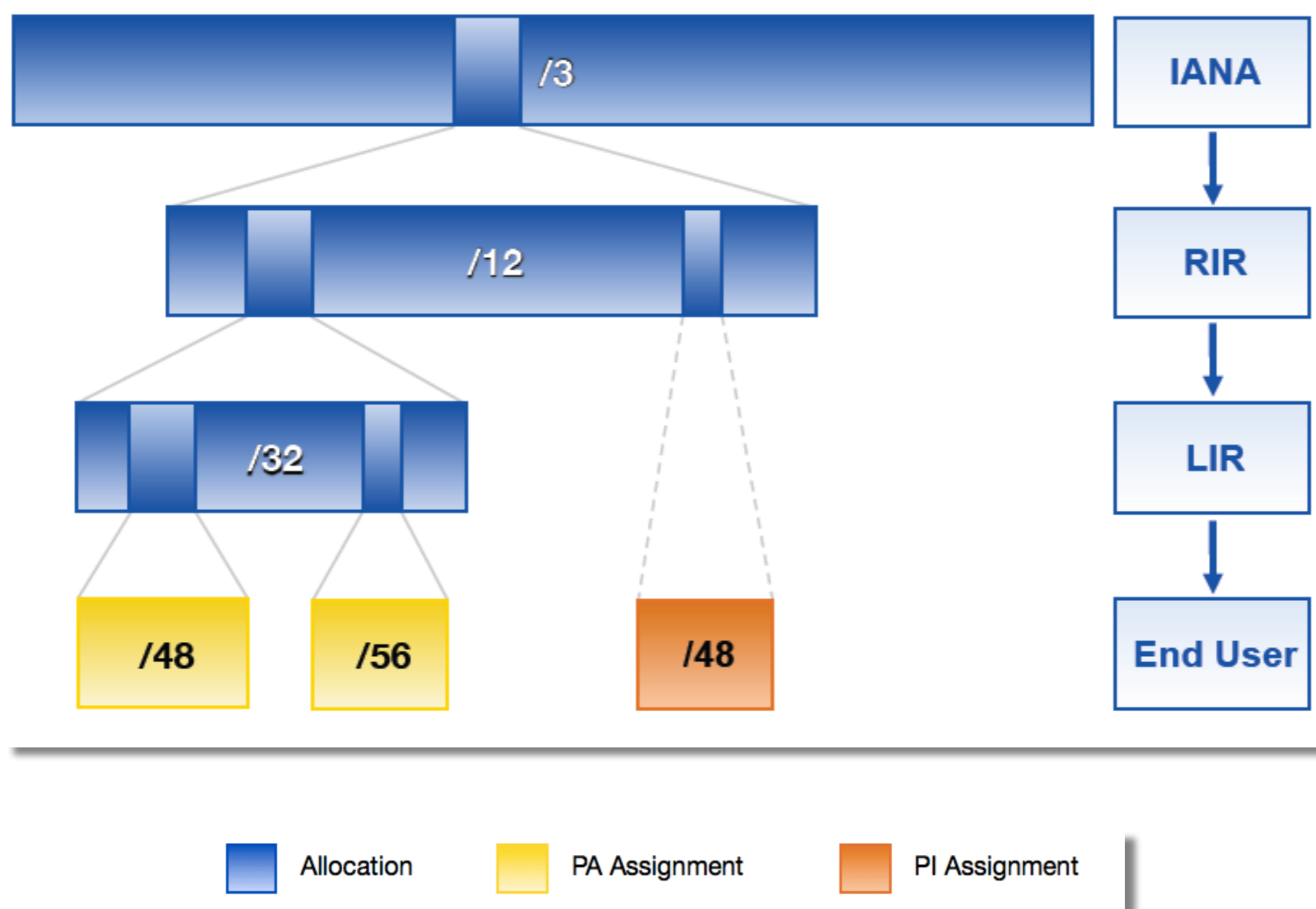


## IPv6 Distribution

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**RIPE**  
NCC



- 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 address

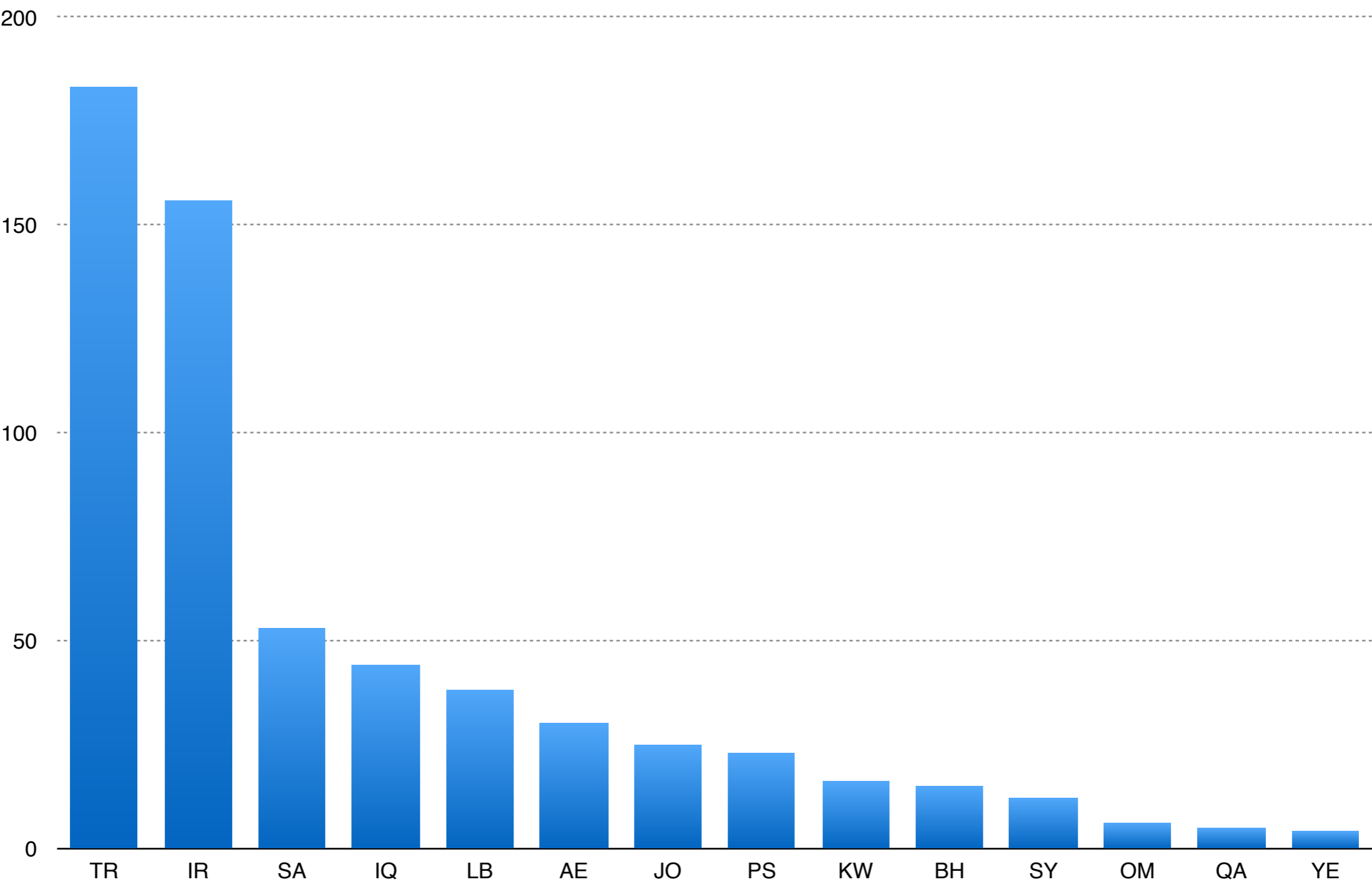


# IPv6 in the Middle East

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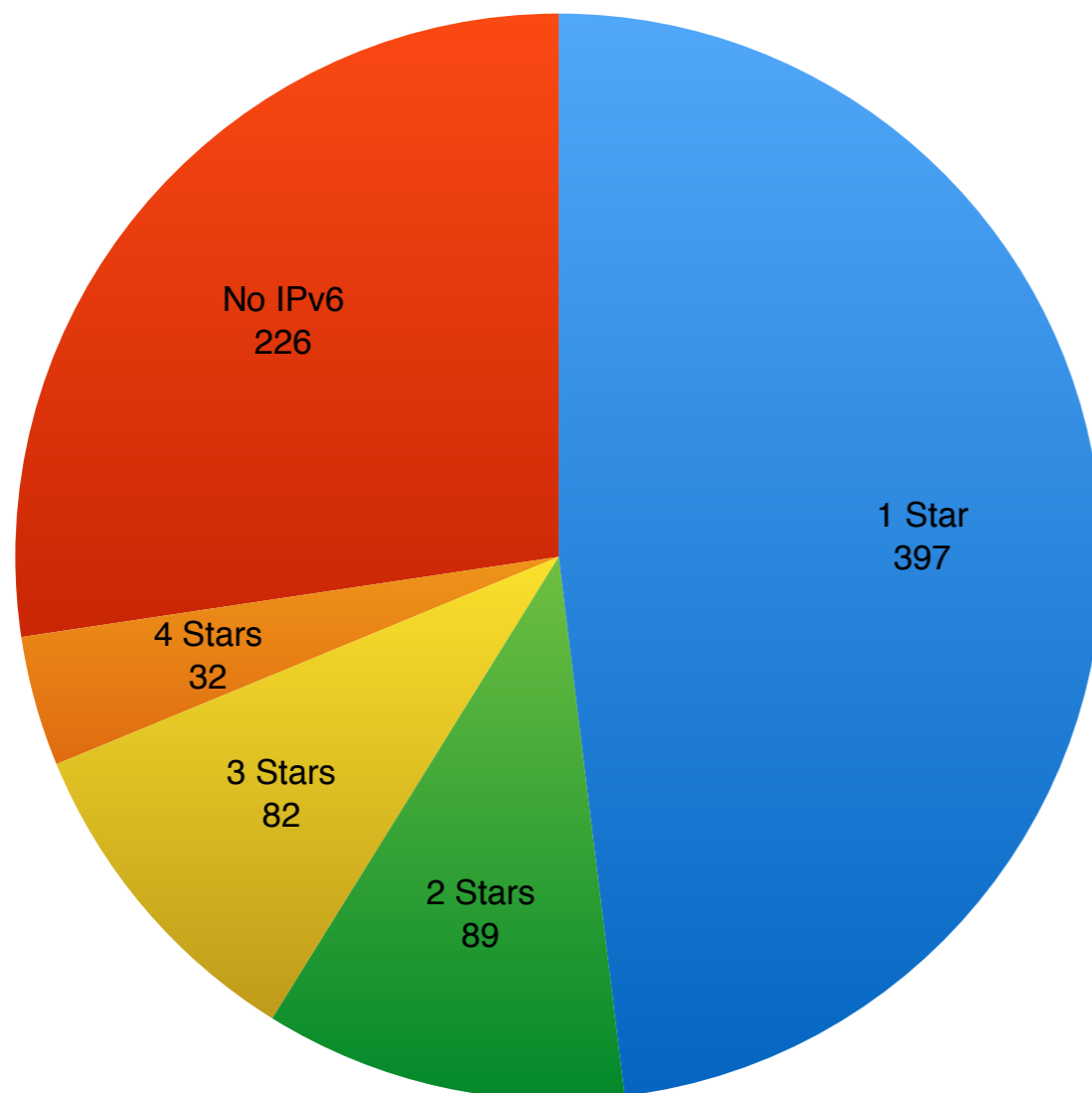


**RIPE**  
NCC

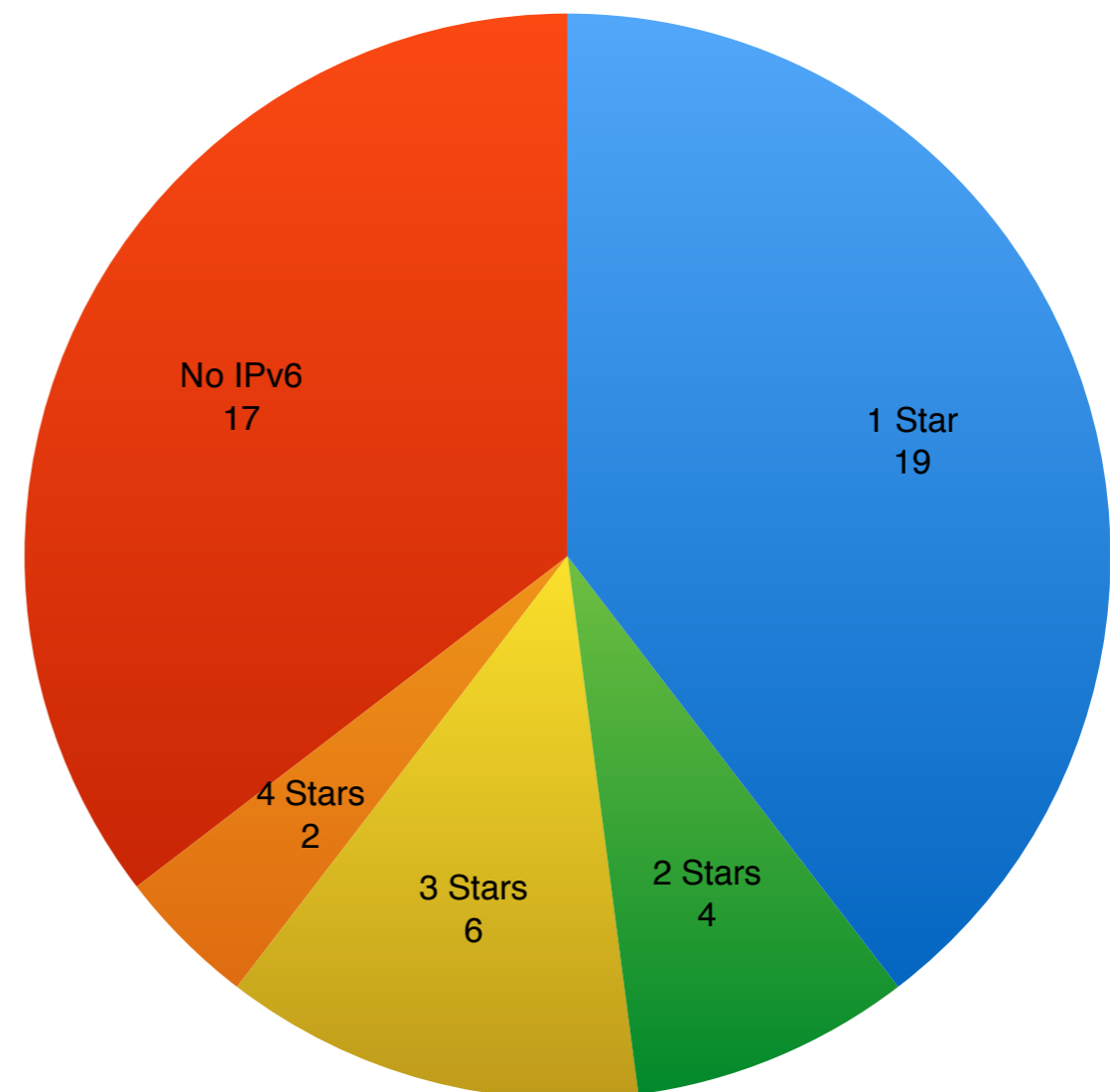


- A rating system that awards “stars” to members based on the steps they have taken towards IPv6 deployment
- A member scores one star each for:
  - Holding an IPv6 allocation
  - Announcing the IPv6 allocation in BGP
  - Registering a route6 object in the RIPE Database
  - Setting up reverse DNS for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

## Middle East



## UAE



- The IPv4 address pool is depleted — the RIPE NCC is 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 Service Centre!

