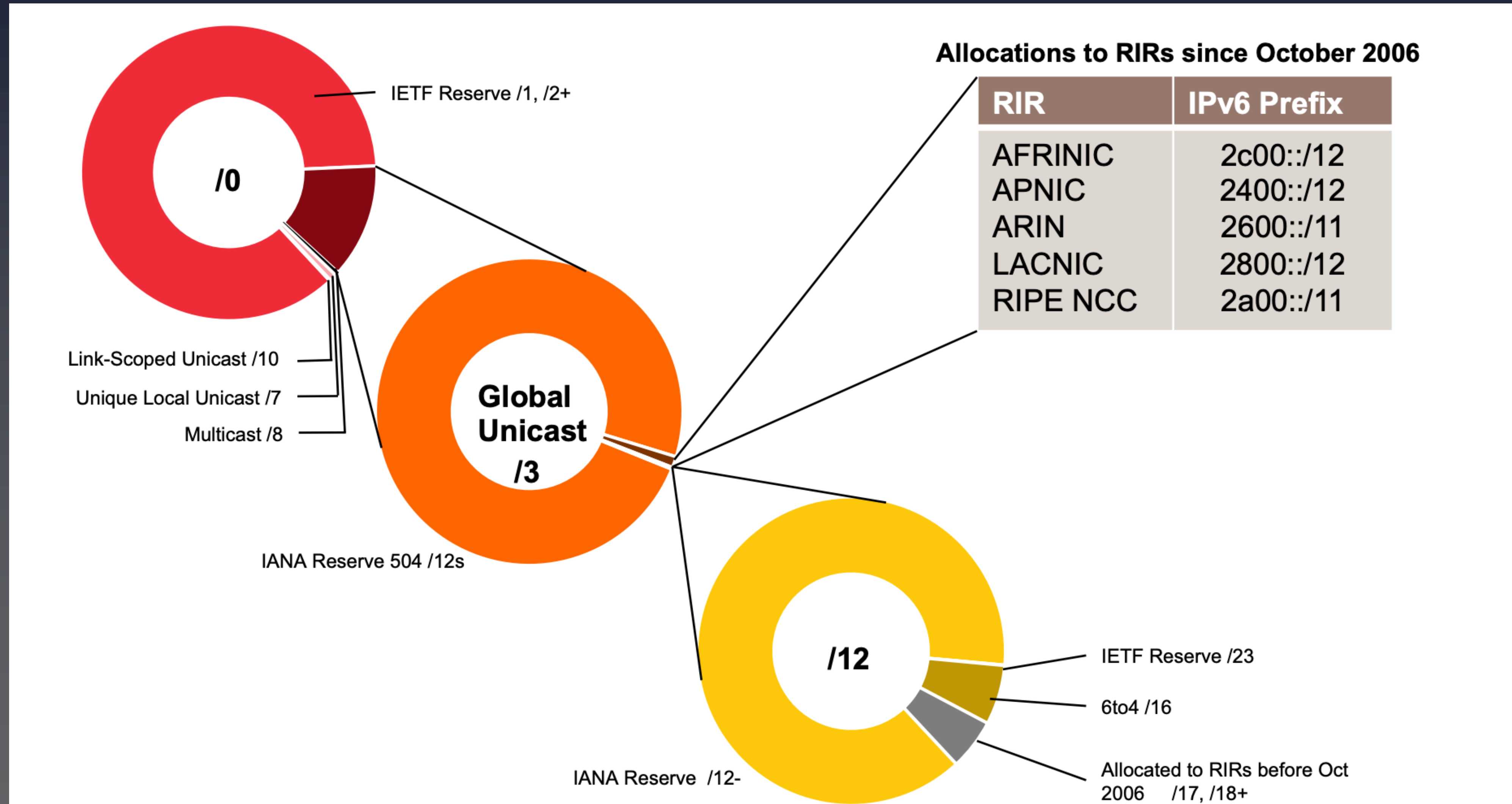




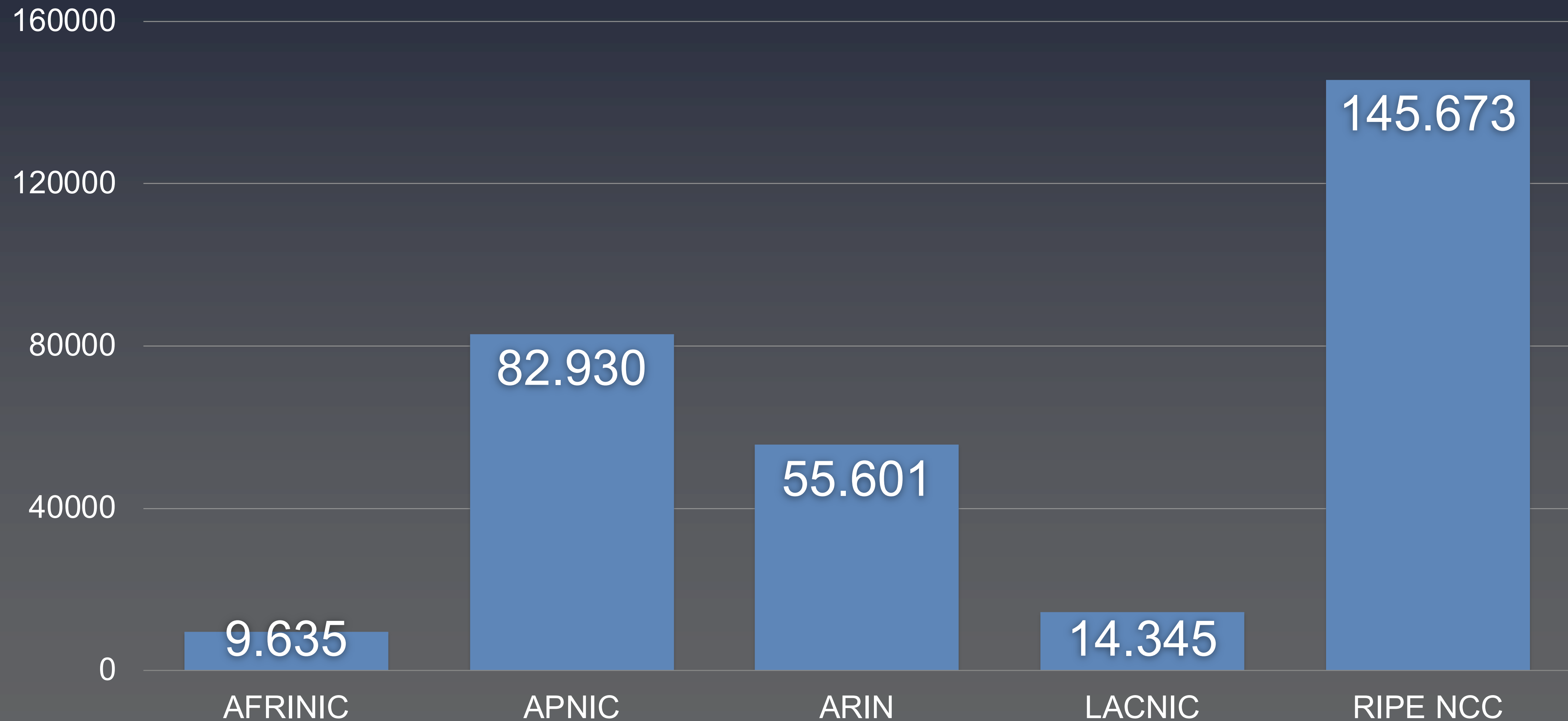
RIPE NCC
RIPE NETWORK COORDINATION CENTRE

IPv6: A View from the RIPE NCC's Registration Services

Global IPv6 Address Distribution



Total Allocated IPv6 Space in /32

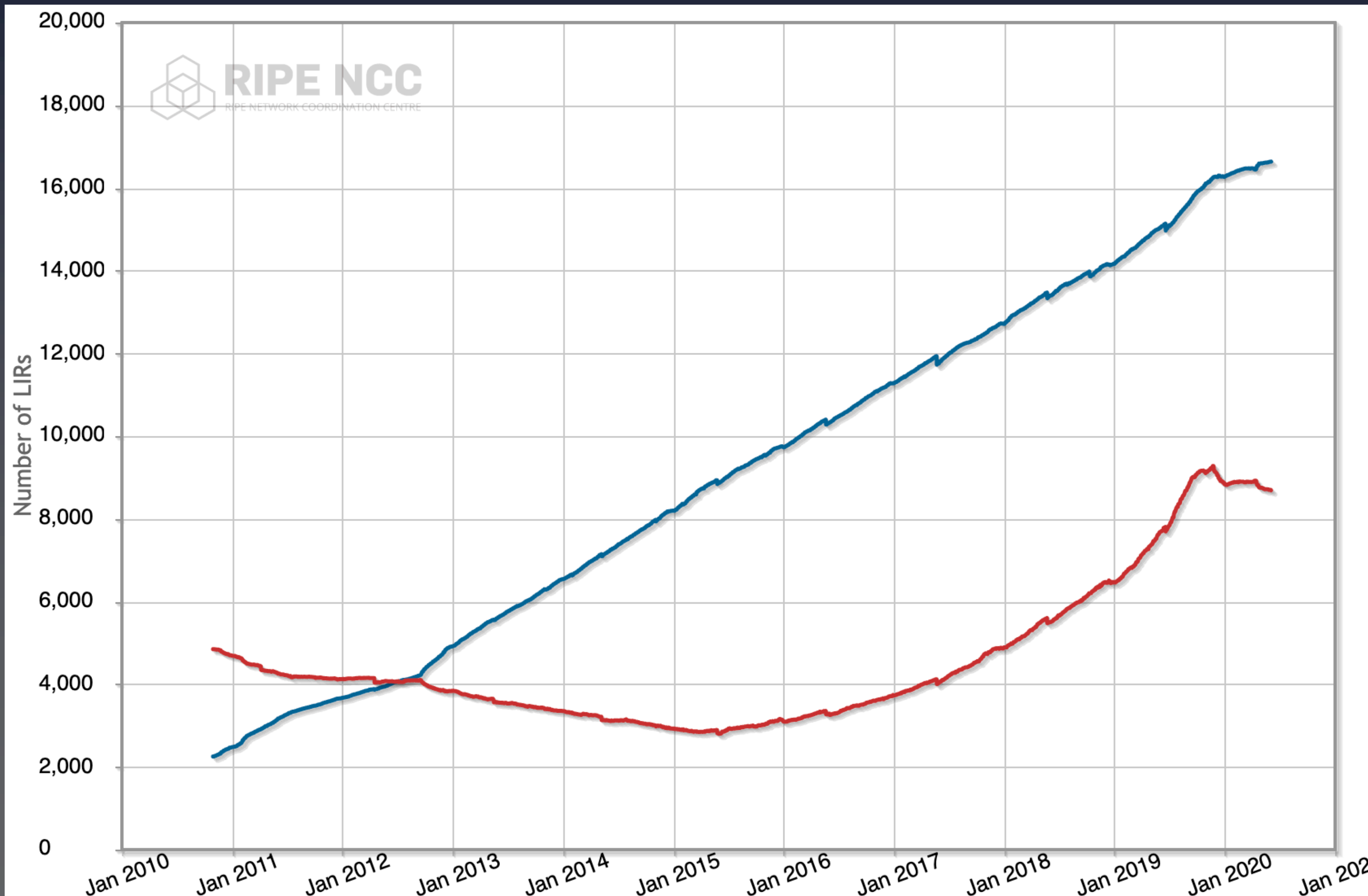


IPv6 Distribution by the RIPE NCC



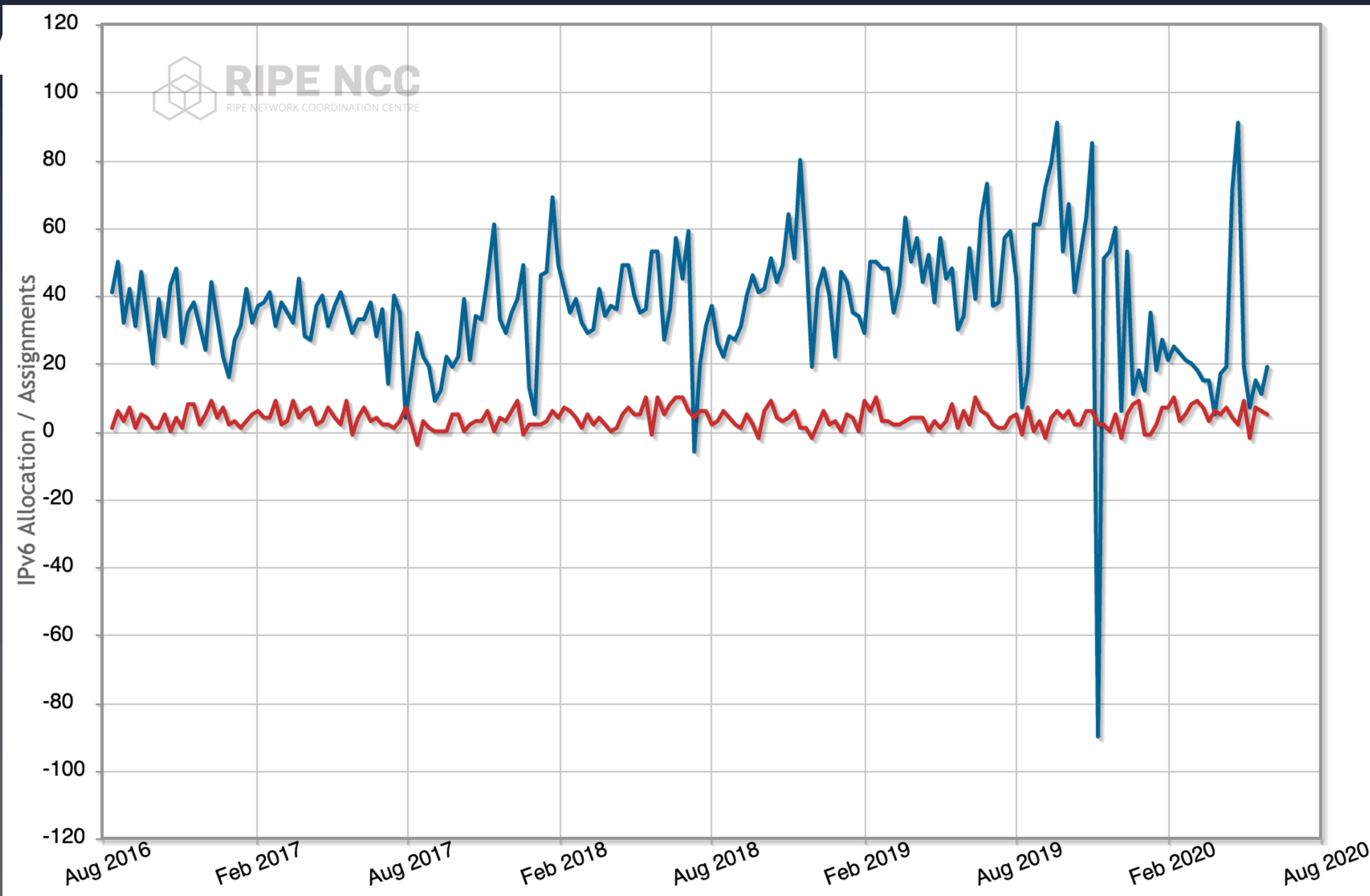
- 25,358 LIR accounts
- 16,658 holding IPv6
- 66% of all LIRs have IPv6

LIRs with and without IPv6



- 16,658 with IPv6
- 8,700 without

Weekly IPv6 Allocations and



Number of IPv6 allocations (blue) and assignments (red) made by the RIPE NCC.

Please note that the graph shows the net changes. That leads to a negative result in some cases.

RIPE IPv6 Policy



- Minimum allocation size is /32 and up to a /29 without additional justification
 - More if justified by customer numbers and network extension
 - Additional bits based on hierarchical and geographical structure, planned longevity and security levels
- Every assignment must be registered in the RIPE Database
- Minimum PI assignment size is /48

Recent Policy Changes



- Organisation-LIR Clarification
 - The right to receive IPv6 allocations applies per LIR
- Multiple Editorial Changes in IPv6 Policy
 - Defining End Site as the location of an End User network
 - Removing the need for RIPE NCC approval for IPv6 end site assignments larger than /48

Trends and Observations



- Increasing interest for large IPv6 allocations
- Several governments preparing nationwide plans
- Knowledge of IPv6 is still limited
- Registration can be a puzzle
- Efforts to stockpile IPv6 by some organisations

Promoting IPv6



- Specialised IPv6 team within Registration Services
- Guidance during evaluation of large IPv6 requests
- Advice while processing IPv4-related requests
- Presence in conferences and events, raising awareness
- Gathering feedback from requesters
- IPv6 training courses, webinars and certification



Questions



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