



IPv4 Address Transfer proposal

APNIC prop-050-v0001

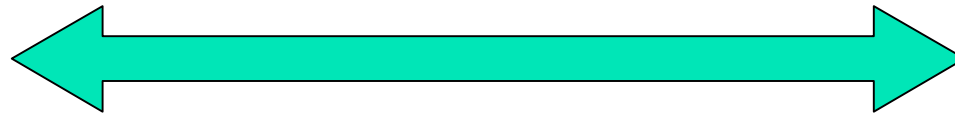
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Motivation: IPv4, IPv6, and Transition

IPv4



Dual Stack

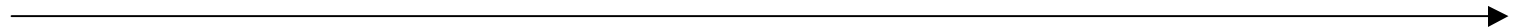


IPv6

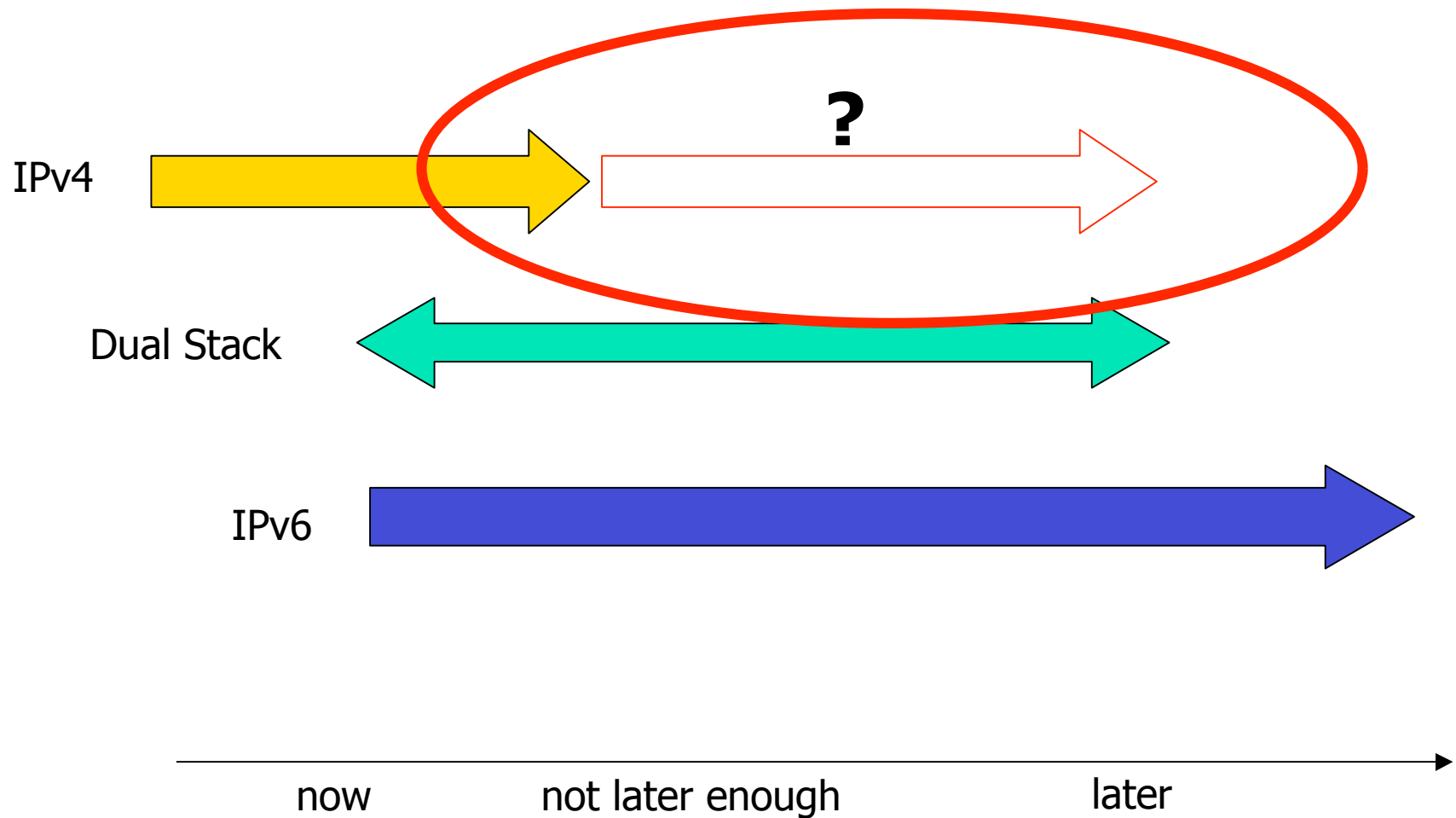


now

later



Motivation: IPv4, IPv6, and Transition





Motivation

- If the demand for IPv4 addresses extends beyond the likely pool exhaustion date ...
 - How will IPv4 addresses be distributed to meet this ongoing demand?
 - Will industry be forced into a mode of IPv4 address transfers to support dual stack deployments?
 - Should we look at this option now, or wait until its time to really panic?



Address Transfer Proposal

- APNIC to recognise the transfer of IPv4 addresses between current APNIC account holders
- Record these IPv4 address transfers in the APNIC IPv4 address registry



Constraints – Address Block

Address block:

- /24 or larger
- administered by APNIC
- status is “current”
- subject to all current APNIC policies



Constraints – Source

The disposer is:

- a current APNIC account holder
- registered holder of the address block
- ineligible for any further APNIC IPv4 address allocations for 24 months
- must document the reasons for any future IPv4 address requests following this 24 month period



Constraints – Recipient

The recipient is:

- current APNIC account holder
- subject to all APNIC policies
- liable for APNIC fees associated with current resource holdings



Details

- Transfer procedure requires notification to APNIC by both parties
- Details of the transfer to be published by APNIC in a transfer log
- APNIC may levy a transfer registration fee



Advantages

- Maintain a consistent and accurate public registry of address holdings
- Mitigate risks associated with black market formation
- Provide indirect incentives for address holders to recirculate unused / unneeded IPv4 address space to support the dual stack transition phase
- Gather experience in transfer procedures



Disadvantages

- Market formation and risks of various forms of market distortions emerging
 - This would be beyond the direct control or purview of APNIC
- Potential for process abuse



Limitations in Current Proposal

- Does not apply to NIRs
- Does not apply to inter-RIR scenarios
- Does not apply to “historical” addresses