

IPv6 Policies & Procedures

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Transition to IPv6

1. Realise that you have to do something :)
2. Get IPv6
3. Deploy IPv6
4. Decommission IPv4

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Getting it - LIR Allocation

- It's easy!
 - /32:
 - Minimum size
 - No questions asked
 - Larger than /32:
 - Justify with IPv4 usage
 - Justify with customer statistics
- No charge in 2011

Getting it - Provider Independent

- A few more requirements:
 - Must be multi-homed
 - Default size /48
 - Multiple /48s if:
 - More than 65.536 subnets
 - Unique routing requirements

Getting it - ISP Customer

- Ask your ISP !!!

Policies - LIR Assignments

- /48 or more
 - status: ASSIGNED
 - if more than /48 to one end-site
 - send a request form! (but only then)
- Address pools
 - status: AGGREGATED-BY-LIR
 - assignment-size: /64../48
- Also possible:
 - status: ALLOCATED-BY-LIR

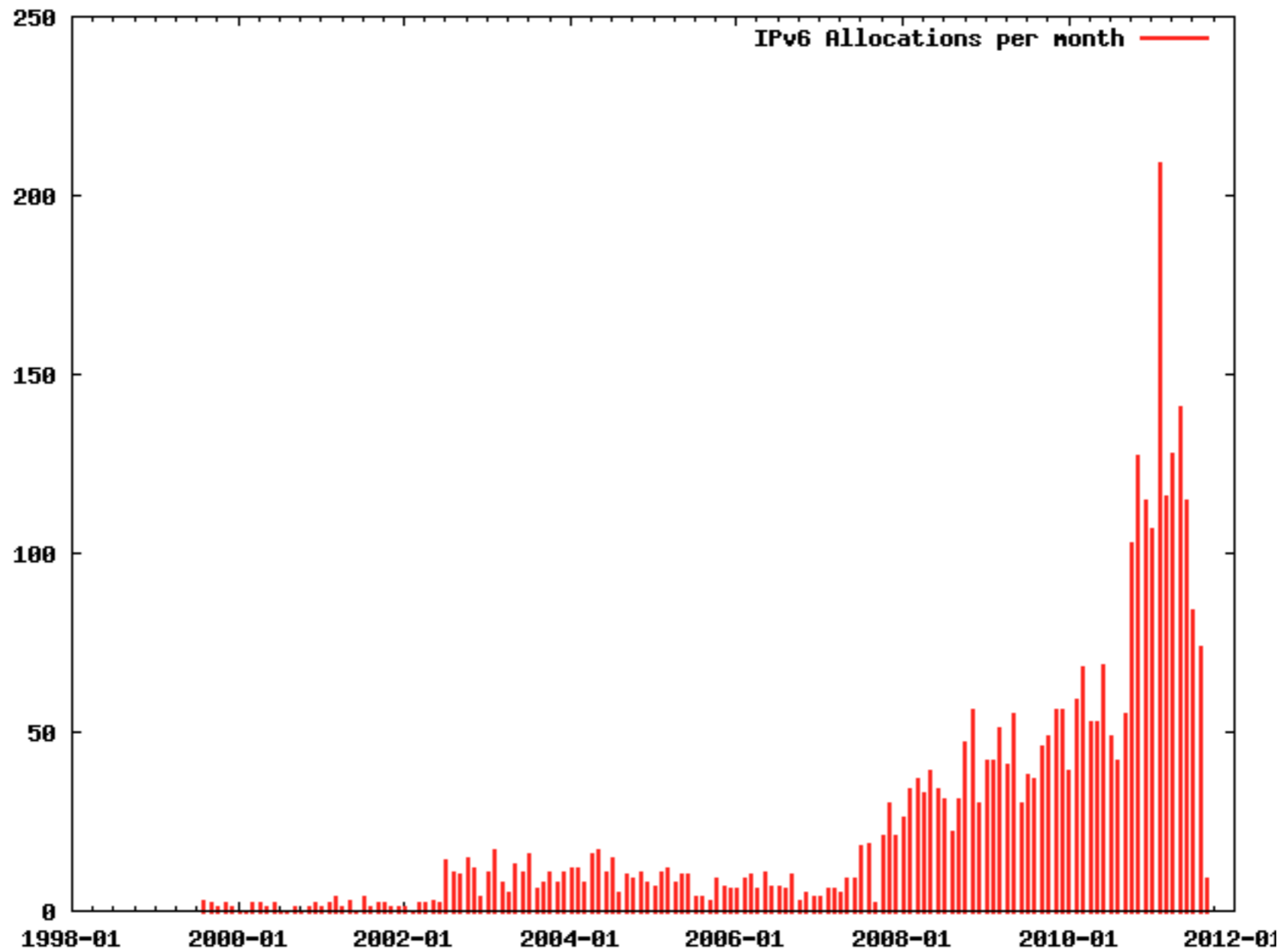
Policies - PI Assignments

- For end-users only, not for ISPs!
 - Absolutely no sub-assignments of any kind
 - This is *different* than IPv4 policy
- For LIRs
 - Not for customer sites, only LIR infra
 - Must show unique routing requirements

Procedures - Reservations

- Allocations
 - /32: Binary chop (recently)
 - Before: 3 bits reserved
 - Larger than /32: 3 bits reserved
- PI Assignments
 - 3 bits reserved

The result



Questions?

