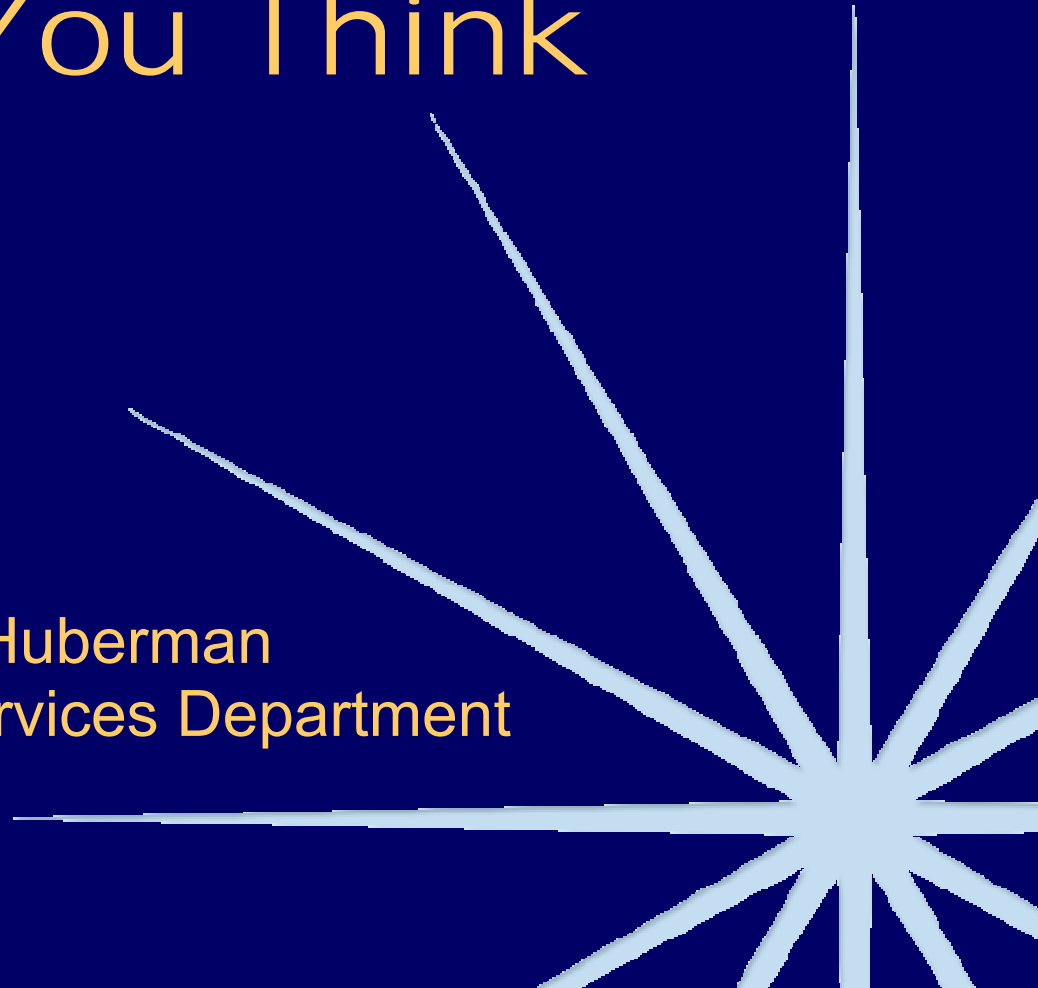


Getting IPv6 Address Space from ARIN is Easier Than You Think

David Huberman
Registration Services Department



Overview

* Request Process

- ▶ Policy
- ▶ Org ID
- ▶ Submitting a Request
- ▶ Post-request

* Statistics

* Useful Links

Policy: Initial Allocation

* Size

- ▶ Minimum: /32
- ▶ Maximum: None

* Criteria

- ▶ Be an LIR (ISP)
- ▶ Not an end site
- ▶ Plan to:
 - ▶ Provide IPv6 connectivity
 - ▶ Either make 200 /48 assignments in 5 years
OR be a known ISP in the ARIN region

What is an Org ID?

- ★ An entity registered in the ARIN database
- ★ An organization is defined by its:
 - ▶ Organization Name
 - ▶ Physical Address
 - ▶ Points of Contact
- ★ Uniquely identified by its handle

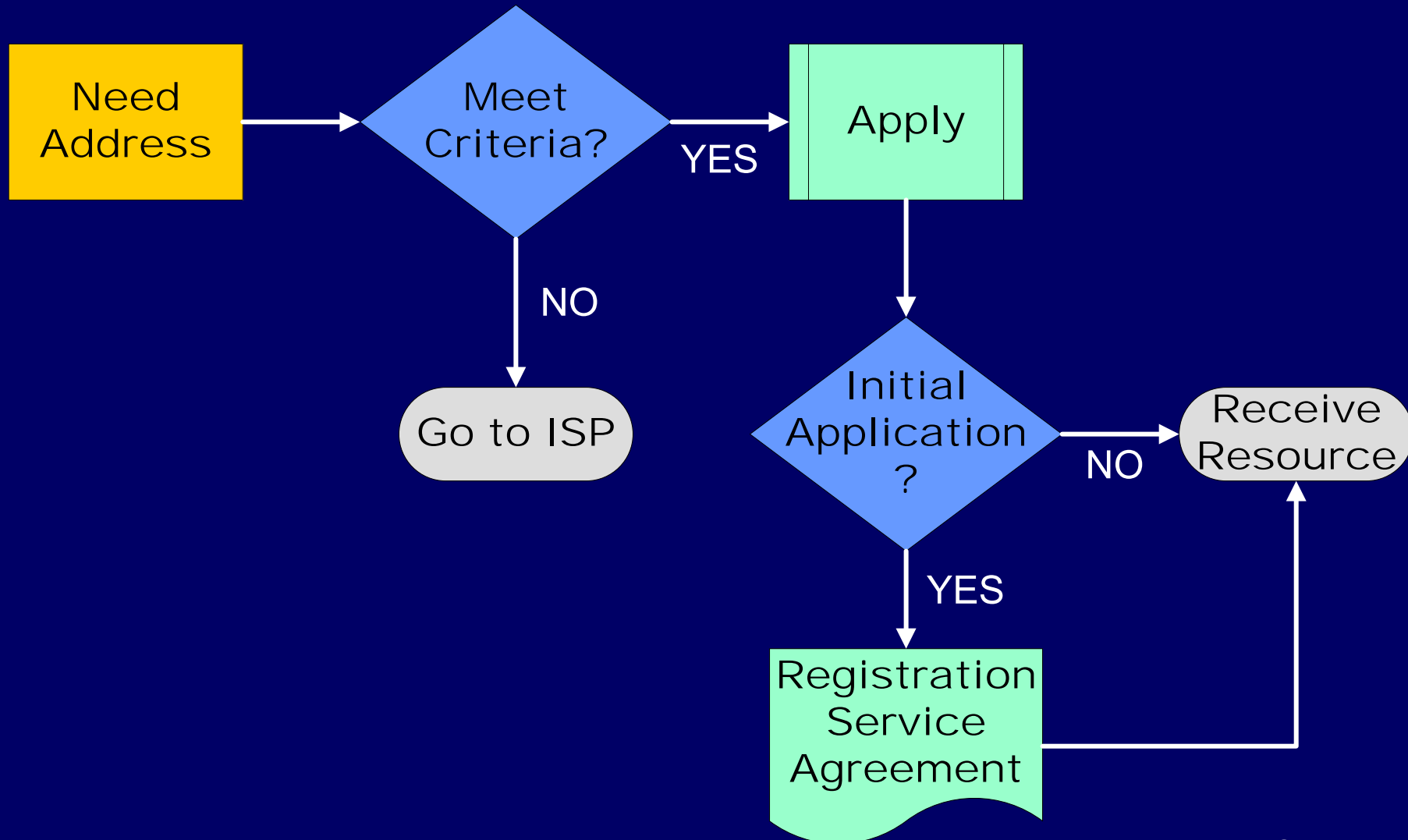
Before You Start...

- ✦ Establish a new Org ID or update an existing one
- ✦ Ensure existing Org ID has up-to-date address and Points of Contact (POCs)

Template: ARIN-NET-IPv6-3.2.1

1. Expected services:
2. Deployment Date:
3. Network Topology Plan:
4. Initial Prefix Length Requested:
5. IPv4 Customers:
6. Additional Information:
7. Existing IPv6 allocation:
8. Assigned
9. Internal:
10. Unassigned:
11. Subsequent Prefix Length Requested:
12. Five-year Plan:
13. Org ID:
14. Org Name:
15. Network Name:
16. DNS Reverse Mapping Name Server:
DNS Reverse Mapping Name Server:
17. POC Type:
18. POC Handle:
19. Public Comments:

Resource Provisioning Process



Approval and Allocation

- * Approval
- * Billing & contract phase
- * Allocation
- * WHOIS update

Assignments by ISP (LIR)

* LIR to end site

- ▶ /48
 - ▶ Usual assignment size
 - ▶ 16 bits for subnets
- ▶ /64 only one subnet
- ▶ /128 only one device connecting

* ISP infrastructure

- ▶ /48 per POP

RFC 3177 "IAB/IESG Recommendations on IPv6 Address Allocations to Sites"

ARIN Region Stats

Direct IPv6 registrations:

/32 networks: 134

/48 networks: 47

Reassignments registered:

/40 networks: 36

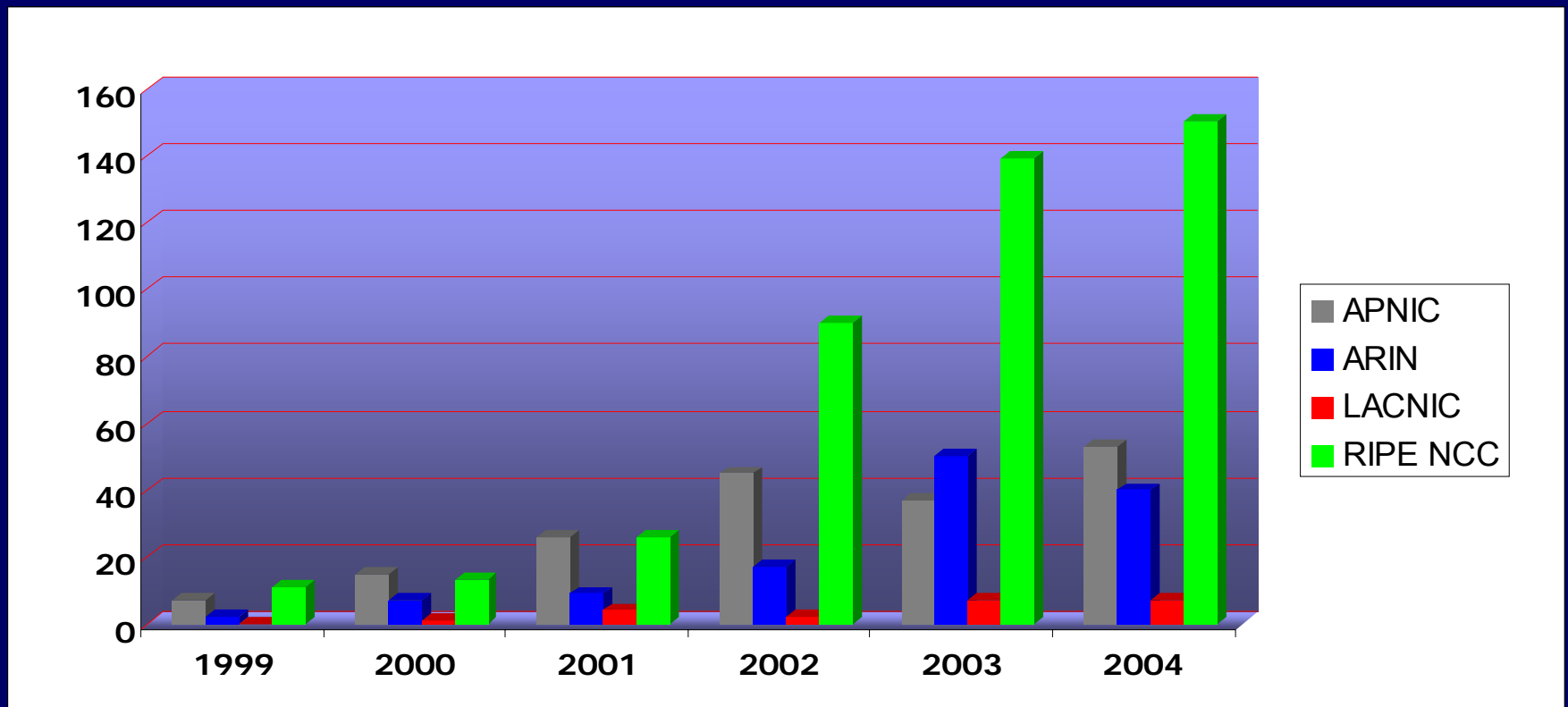
/48 networks: 82

/64 networks: 1

Breakdown by Country (/32s only):

110 USA, 18 CA, 5 ZA, 1 MW

IPv6 Allocations RIRs to LIRs/ISPs



Useful Links

* <http://www.arin.net/registration/templates/v6-request.txt>

* <http://www.arin.net/policy/index.html#six51>

Thank you!