

Current RIPE Policy Developments and RIPE Policy Implementation

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Contracts for Independent Resource Holders

- Independent Resources
 - PI address space (IPv4 and IPv6, IXP IPv6, Anycast)
 - AS Numbers
- Annual fees for Independent Resources
- Implementation phased approach:
 - Phase 1: new assignments (March 2009)
 - Phase 2: existing assignments (ongoing)
 - Phase 3: RIPE NCC will directly contact End Users

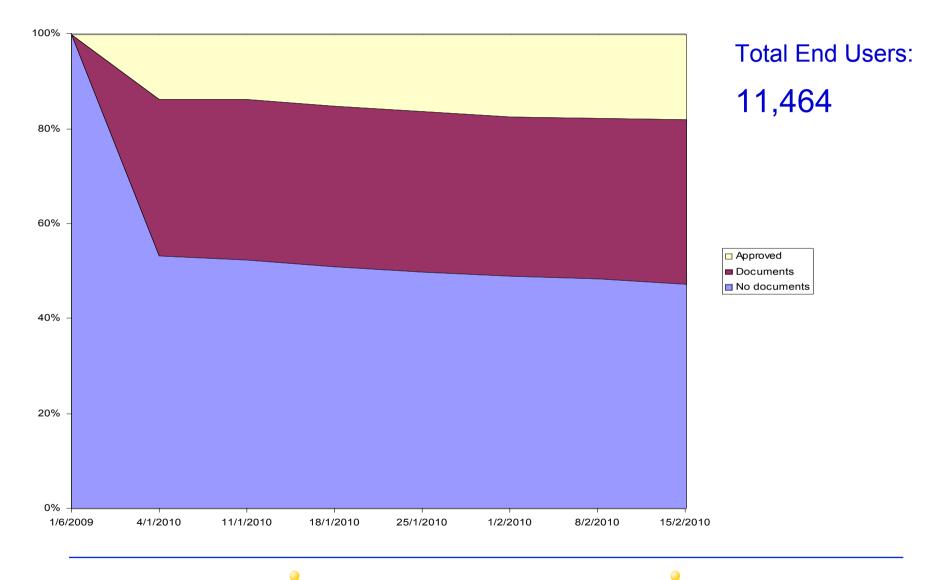


Existing Independent Assignments

- End User choices (since Q2 2009):
 - Sign contract with their original LIR
 - Find a new sponsoring LIR
 - Become an Direct Assignment User
 - Become an LIR
 - Return the resource (address space or ASN)



End Users and their Agreements





Run Out Fairly Implementation

- Gradually reduced allocation/assignment periods, for a need of up to:
 - 9 months (July 2010)
 - 6 months (January 2011)
 - 3 months (July 2011)

Since January 2010: assignments for up to one year



Policy Development in RIPE





How Can You Participate?

Join mailing list discussions about policy proposals

- Read the Working Group mail archives
 - RIPE website → RIPE → Mailing Lists

- Come to the RIPE Meetings
 - Two free tickets for new LIRs
 - Remote participation possible



Policy Proposals Currently Under Discussion

- End of IPv4
 - Use of Final /8
 - IPv4 Allocation and Assignments to Facilitate IPv6 Deployment

- Resource Certification
 - Using the Resource Public Key Infrastructure (RPKI) to Construct Validated IRR Data



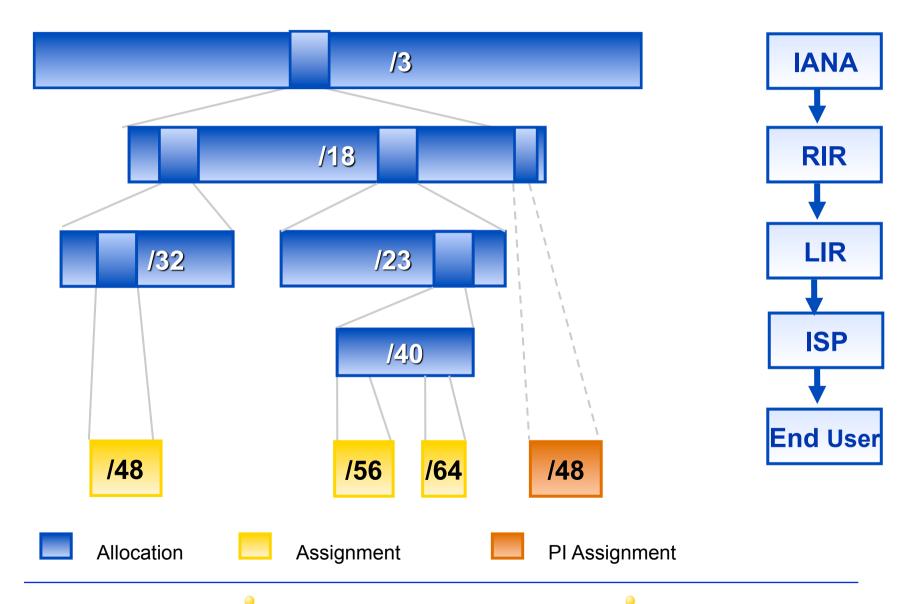
Getting IPv6 from the RIPE NCC



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IPv6 Address Space Distribution





To Obtain an IPv6 Allocation

- Your organisation must be an LIR
- Have a plan for making assignments within two years
- Minimum allocation size: /32
- For further allocations:
 - Previous allocations should be used by HD ratio of 0.86
 - The unit of measurement is /56



If You're Not An LIR?

- Get a sub-allocation from an LIR
- Get a Provider Aggregatable (PA) assignment from an LIR:
 - /48 or /56 for End User sites
 - /64 for one subnet
 - /128 for hosts
- Apply for a Provider Independent (PI) IPv6 assignment from the RIPE NCC



IPv6 in the Routing Registry

- RPSLng compliant:
 - RIPE Database
 - IRRToolset: RtConfig

- Create "route6" objects for your IPv6 allocations
 - Example lookup: whois -r -m -T route6 2001::/18

Describe routing policy in mp-import: / mp-export:



IPv6 in the Reverse **DNS**

```
inet6num: 2001:0888::/32
status: ALLOCATED-BY-RIR
mnt-by: RIPE-NCC-HM-MNT
mnt-domains: LIR-MNT

domain: 8.8.8.0.1.0.0.2.ip6.arpa
mnt-by: LIR-MNT
nserver: ns.example.com
nserver: ns.ripe.net
```



Questions?

