Update from the RIPE NCC

David Hilario, RIPE NCC
The Internet Registry System

IANA

- Lacnic, Latin America
- ARIN, North America
- RIPE NCC, Eurasia, Middle East
- AFRINIC, Africa
- APNIC, Asia Pacific

FRnOG, September 2013
Regional Internet Registries (RIR)

- Distribution and registration of Internet number resources: IP addresses, AS Numbers
- Not-for-profit organizations
- Funded by membership fees
- Neutral, Impartial, Open, Transparent
- Policies decided by regional communities
RIPE NCC Membership Fee for 2014

• Approved at General Meeting from RIPE 66
  – Flat fee structure stays
  – Fee is lowered from 1800 Euros to 1750
  – PI assignment stays at 50 Euros per assignment
  – AS Numbers no extra charge

• New members
  – 2000 Euro sign up fee plus yearly fee
  – Yearly fee divided in quarters
  – New members pay for the remaining quarters of the year
## Overview of LIRs In France

French members growing in numbers!

### New Applications 2013

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### Growth per Country

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FRNoOG, September 2013
RIPE NCC reached Last /8

- Each LIR can get only **one** /22 allocation
- New and existing LIRs
- Must already have IPv6 allocation
- 2155 * /22 issued so far
- Any returned addresses distributed according to last /8 policy
IPv4 Available Address Pool

RIPE NCC IPv4 Pool – Last 12 Weeks

Sep 16: 16.13 Million or 0.96 /8s
Available: 14.51 Million or 0.87 /8s
Reserved: 1.62 Million or 0.10 /8s
Need More Address Space?

- Different types of intra-RIR transfers:
  - Mergers and acquisitions
  - IPv4 Transfer Policy: ripe-583, section 5.5
- IP addresses to be transferred cannot be in use
- Receiving LIR must justify need for IP addresses
- Permanent or temporary

- Currently no inter-RIR transfer possible in the RIPE region
IPv4 Transfer Listing Service (1)

- Enables LIRs looking to transfer allocations to find receiving parties
- LIRs can also request resources
- Member-only service through the LIR Portal
- Currently 503,808 IPs offered vs 16,489,472 requested
IPv4 Transfer Listing Service

The IPv4 Transfer Listing Service is a platform that enables RIPE NCC members to list and exchange the IPv4 address space they hold and no longer need. This can be transferred between RIPE NCC members as described in "IPv4 Address Allocation and Assignment Policies for the RIPE NCC Service Region". More information about transfers of IPv4 address space can be found here.

Before any resources can be transferred, the receiving LIR must send an initial/additional allocation form to the RIPE NCC for pre-approval. The request must state the listing service is being used and the desired allocation size.

By using this service you explicitly express your agreement with the IPv4 Transfer Listing Service Terms and Conditions.

Click here to offer IPv4 address space
Click here to request IPv4 address space

Offered IPv4 Addresses

- /21 (3)

Requested IPv4 addresses

- /13 (1)
- /14 (1)
- /16 (6)
- /17 (2)
- /18 (10)
IPv4 Transfer Statistics

![IPv4 Transfer Statistics Chart](chart.png)
Where Does the RIPE NCC Stand?

- Our ultimate priority is keeping the registry up-to-date
- Ensuring that transfers follow RIPE Policy
- Supporting our members through the transfer process
- The RIPE NCC has no interest in financial transactions
Current Policy Proposals (1)

• “Policy for Inter-RIR Transfers of IPv4 Address Space”
  – Policy proposal 2012-02
  – This proposal describes how transfers of IPv4 address space between LIRs of different Regional Internet Registries will occur
  – Need for policy compliance between RIRs:
    – Originating party complies with policy of originating RIR
    – Destination party complies with policy destination RIR
    – RIRs must have compatible as well as reciprocal policies

• Status: proposer awaiting outcome of 2013-03
Current Policy Proposals (2)

• “No Need – Post-Depletion Reality Adjustment and Cleanup”
  – Policy proposal 2013-03
  – This proposal intends to remove the need-based requirement for IPv4 delegations in the RIPE NCC service area.
  – Remove "conservation" as a stated goal of the policy.
  – Remove all active policy text referring to documentation, evaluation of need, and validation of actual usage for both assignments and allocations.

• Status: Review Phase
Current Policy Proposals (3)

- "No Restrictions on End User Assignments in Intra-RIR Transfers"
  - Policy proposal 2013-03
  - This proposal intends to remove the requirement for address space to be free from End User assignments before a transfer is possible.

- Status: Discussion Phase
IPv6 RIPEness

• Rating system that awards ‘stars’ to members
• Indication of IPv6 readiness at LIR level
• An LIR can get a ‘star’ for:
  – Hold IPv6 allocation
  – IPv6 prefix is announced on router
  – A route6 object in the RIPE Database (whois)
  – IPv6 reverse DNS set up
IPv6 RIPEness RIPE Region

- All (9523 LIRs)
  - 3 stars: 1271 (13%)
  - 2 stars: 737 (7%)
  - 1 star: 2116 (22%)
  - no IPv6: 3455 (36%)
  - 4 stars: 1944 (20%)
IPv6 RIPEness France

France (562 LIRs)

- 3 stars: 87 (15%)
- 2 stars: 61 (10%)
- 1 star: 132 (23%)
- no IPv6: 168 (29%)
- 4 stars: 114 (20%)
IPv6 Allocation

- Be an LIR
- Have a plan for making assignments within two years
- Minimum allocation size /32
- LIR may request up to /29 without further documentation
IPv6 PI assignment

- Minimum assignment size /48
- Justify need for additional subnets
- PI space can not be used for sub-assignments
- Request through sponsoring LIR
RIPE Database News: New Query Flags

- Show all Flags: whois -h whois.ripe.net help

```
% This is the RIPE Database query service.
% The objects are in RPSL format.
%
% The RIPE Database is subject to Terms and Conditions.
% See http://www.ripe.net/db/support/db-terms-conditions.pdf

% NAME
% whois query server

% DESCRIPTION
% The following options are available:

-x, --exact <ip-lookup>
    Requests that only an exact match on a prefix be performed. If no
    exact match is found no objects are returned.

-l, --one-less <ip-lookup>
    Returns first level less specific inetnum, inetnum or route(6)
    objects, excluding exact matches.

-L, --all-less <ip-lookup>
    Returns all level less specific inetnum, inetnum or route(6)
    objects, including exact matches.

-m, --one-more <ip-lookup>
    Returns first level more specific inetnum, inetnum or route(6)
    objects, excluding exact matches.

-M, --all-more <ip-lookup>
    Returns all level more specific inetnum, inetnum or route(6)
    objects, excluding exact matches.

-c, --no-irt <ip-lookup>
    Turns off default option '-c' or '--irt'.
```
## RIPE Database News: Abuse contact info

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<td>SB436-RIPE</td>
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Links

- [http://www.ripe.net/lir-services/resource-management/ipv4-transfers](http://www.ripe.net/lir-services/resource-management/ipv4-transfers)
- [https://www.ripe.net/ripe/policies/current-proposals/current-policy-proposals](https://www.ripe.net/ripe/policies/current-proposals/current-policy-proposals)
- [http://ripeness.ripe.net/](http://ripeness.ripe.net/)
- [https://labs.ripe.net/statistics](https://labs.ripe.net/statistics)
Questions?