Registration Services
Feedback
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The Goal of This Update

• To report back to the RIPE community:
  - The feedback we receive from LIRs
  - Highlighting potential problem areas

• Asking for guidance on these topics

• Providing input to the community for policy discussion
Agenda

• The outcome of past topics
  - Re-assignment of returned but referenced AS Numbers
  - Changing status from PI to PA
  - Transfer of PI addresses

• New topics
  - Transfer of IPv6 addresses and AS Numbers
  - Returning IPv6 PI for LIRs
  - Reassigning future returned but referenced AS Numbers
Re-assignment of Returned AS Numbers

• The RIPE NCC has ± 2,000 returned but referenced 16-bit AS Numbers
  - Because they are referenced, these AS Numbers are currently not being reassigned

• At RIPE 67 and on the APWG mailing list, you gave us a mandate to clean these references

• Actions taken
  - Sent four emails to contacts of referencing objects, asking to delete the reference (± 200 references deleted as a result)
  - RIPE NCC will remove the remaining references
Changing Status From PI to PA

• We received an increasing number of requests to change PI assignments into PA allocations for:
  - Organisations that received PI addresses before becoming LIRs
  - LIRs that have taken over organisations with PI addresses
• At RIPE 67 and on the APWG mailing list, you gave us a mandate to allow the status change for LIRs
• Actions taken
  - Procedure now in place for PI blocks equal or larger than the minimum allocation size
  - ±40 requests processed since 24 March 2014
Transfer of PI Addresses

- We noticed a sharp increase in requests for transfers of PI address blocks
- Policy does not support transfers of PI address space
  - There was concern that this barrier would stop PI holders from maintaining a current and accurate RIPE Registry
- Actions taken
  - RIPE community policy proposal to allow for transfers of PI addresses
New Topics
Transfer of IPv6 Addresses and AS Numbers

- RS receives an increasing number of requests to transfer all resources from one LIR to another
  - IPv4 allocations can be transferred
  - IPv6 allocations and AS Numbers cannot be transferred
- RIPE Policy does not envisage IPv6 and AS Number transfers
- IPv6 and AS Numbers are often being used, therefore not being able to transfer them is an issue for the receiving LIR
Returning IPv6 PI for LIRs

“If an organisation already received a PI assignment before becoming an LIR, the PI assignment should be returned upon receiving an IPv6 allocation if there are no specific routing requirements to justify both.”

http://www.ripe.net/ripe/docs/ripe-589#IPv6_PI_Assignments_LIR
Returning IPv6 PI for LIRs

• The RIPE NCC receives requests from LIRs for an IPv6 allocation
  - LIR has an IPv6 PI assignment
    • The assignment is in use
    • There is no different routing policy to justify both

• IPv6 assignment must be returned
  - 22 IPv6 PI assignments returned since 2013
Re-assignment of Future Returned AS Numbers

- AS Numbers are constantly being returned to the RIPE NCC
  - When referenced, these are not being re-assigned
  - Asking organisations to clean references does not work...

- Two possible options
  1. RIPE NCC starts issuing referenced AS numbers
  2. RIPE NCC contacts organisations asking to clean reference, if not done within 2 weeks the RIPE NCC removes the reference
To Keep You Updated

- **LIRs are sometimes closed for non payment**
  - Their resources are then being deregistered, including their /22 from the last /8
- **If an LIR re-opens (no matter after how long) the RIPE NCC is re-allocating a /22 to the LIR**
Questions?