

Registration Services Feedback

Andrea Cima
RIPE NCC

RIPE 67 - Athens



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

Topics

- The outcome of past topics:
 - Re-assignment of referenced AS numbers
 - Transfer policy experience
 - Changing status from PI to PA

- Current topics
 - Unadvertised AS Numbers
 - Transfer of PI addresses

Past Topics - Outcome

Re-assignment of Referenced AS Numbers

- The RIPE NCC has $\pm 1,900$ referenced 16-bit AS Numbers
 - Accumulated over the years, number increased during 2007-01 phase 3
- Because they are referenced, these AS numbers are currently not being reassigned
- At RIPE 66 and on APWG mailing list, you gave us a mandate to clean these references

<https://labs.ripe.net/Members/denis/making-more-16-bit-as-numbers-available>

Transfers of Assigned Address Space

- Address space that is in use cannot be transferred
- This causes problems for organisations that:
 1. Received a PA assignment from an LIR
 2. Use the address space in their network and for their customers
 3. Become an LIR themselves
 4. Want to transfer this address space to their own LIR
- The result: policy proposal 2013-05, “No Restrictions on End User Assignments in Intra-RIR Transfers”

Changing Status From PI to PA

- RS receives an increasing number of requests to turn PI assignments into PA allocations:
 - Organisations that received PI addresses and later became LIRs
 - LIRs that have taken over End User organisations with PI addresses
- Reasons for requests:
 - Network restructuring due to IPv4 scarcity
 - Need for increased flexibility of address space use (customer assignments, transfers etc.)

Changing Status From PI to PA

- Initial solutions proposed:
 - A. Allow LIRs to change the status of their PI assignments into PA allocations (if equal or larger than the minimum allocation size)
 - B. Do not allow LIRs to change the status of their PI assignments into PA allocations
- APWG mailing list consensus seems to be in favour of:
 - Allowing LIRs to change the status of their PI assignments into PA allocations
 - Ignoring the minimum allocation size

New Topics

Unadvertised AS Numbers

- The global supply of 16-bit AS Numbers is being exhausted
- There are ± 5000 assigned but unadvertised 16-bit AS Numbers in the RIPE region

“If an organisation no longer uses the AS Number, it must be returned to the public pool of AS Numbers.”

- “Autonomous System (AS) Number Assignment Policies” (ripe-525)

Unadvertised AS Numbers

- Potential options:
 - A. The RIPE NCC asks holders of unadvertised ASNs if these are unused. If this is the case, the holder is requested to start using the ASN within a reasonable timeframe (3 months?) or return it to the available pool
 - B. The RIPE NCC does not contact the holders of unadvertised ASNs

Transfer of PI Addresses

- The RIPE NCC has noticed a sharp increase in requests for transfers of PI address blocks
- Policy does not support transfers of PI address space
 1. *“Any LIR is allowed to re-allocate complete or partial blocks of IPv4 address space that were previously allocated to them”*
 2. *“All assignments are valid as long as the original criteria on which the assignment was based are still valid (...) If an assignment is made for a specific purpose and that purpose no longer exists, the assignment is no longer valid.”*

<http://www.ripe.net/ripe/docs/ripe-592>

Transfer of PI Addresses

- PI addresses can only be transferred through acquisition of an organisation or network or service
- There is a concern that this barrier may stop organisations from maintaining a current and accurate RIPE Registry

Questions?

