2007-01 revisited

"What do we do next?"



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Current 2007-01



- Goals
 - Make PA more attractive than PI
 - Prevention of abuse, hijacking, etc.
 - Tighten up on sub-assignment
 - "Responsible Stewardship"
- The current proposal can work...
 - ... but only if we want to turn RIPE into an administrative monster
 - we probably don't want to do this
 - RIPE NCC is a numbers registry, not a contract management and debt collection agency

"What do we do next?"



- We're too late to fix new IPv4 PI assignments
 - mostly anyway we're 12 years into an projected ±15 year life-cycle
 - at the earliest, any policy change could only be implemented by 2008-05
 - … leaving maybe 2 years of new assignments
 - Let's acknowledge that the horse bolted years ago
- The primary focus is on:
 - IPv6
 - AS numbers
 - Existing IPv4 assignments

"We are all going on an expedition"



- Explicitly allow cost model for PI / ASNs, for end-user and LIR-based assignments, past and present
- Allow end-user to maintain relationship with LIR of choice, or directly with RIPE
- Make policy retroactive for all PI assignments since RIPE-127 (Note: not ERX and not older "allocations")
- Careful expiry of existing "lost" registrations, where registrant cannot be located

Create cost model



Rationale

- initial process for cleaning up PI allocation records is going to be long, hard and tedious
- this is administrative talk for "expensive"

But

- applying a cost model creates a natural garbage collection system
- RIPE NCC policy is to encourage PA assignments, not
 PI. Zero cost PI does not reflect this policy
- The cost-free IPv4 PI assignment regime puts RIPE NCC funding burden solely on LIRs, which is not fair
- we need fair

So

so RIPE NCC needs to charge for number resources, including PI address space and ASNs

Choice of end-user relationship



Rationale

- Clear that RIPE NCC cannot easily deal with expansion from 4k to 16k contractual relationships
- Nevertheless, there are situations where it is more appropriate for an end-user to have a direct relationship with RIPE NCC

Process

- End-user can deal with RIPE NCC directly
 - envisage a web based auto-signup procedure
 - fully automated, no human interaction
 - registration expires unless bills are paid
- End-user can also use their LIR
 - LIR will bill end-user
 - RIPF NCC will bill LIR

Choice of end-user relationship



- Consequences
 - some increased overhead for LIRs
 - more increased overhead for RIPE NCC
 - careful transfer method required, to deal with:
 - friendly transfer from LIR to LIR
 - transfer from hostile LIR at end-users' request
 - transfer from LIR to RIPE NCC
 - transfer from RIPE NCC to LIR
- But
 - creates onus on LIR to maintain good records for PI end-users
 - or else, end-user is obliged to maintain relationship with RIPE NCC

Make policy retroactive



Limitations

- not included in original 2007-01 because it is controversial and has many consequences
- does not include ERX ASNs or IPv4 PI space
- o does include IPv4 space marked as PI but assigned before RIPE-127 (Registry of last resort assignments)
- RIPE NCC obligations
 - chase up PI/ASN holders
 - liaise with LIRs about who gets billed for what
 - categorisation of lost registrations
 - all these things are long, hard and tedious

Expiry of lost registrations



Problems

- retroactive application of new policy ouch!
- some expiry will be caused by bad contact details
- some expiry will apply to genuinely dead assignments
- what does RIPE NCC do with expired registrations?
 - put into holding pool or recycled immediately?
- in particular, what happens to registrations which are still used, but where RIPE NCC can get no response
 - routed on Internet vs never routed visibly, but still used
- On the other hand...
 - we are already familiar with the idea of expiry and reuse of resources (phone numbers, domain names, etc)
 - no expiry is also bad stewardship of resources
 - heresy: we require end-users also be responsible for their registrations



Soooo, let's hear what you have to say...

- Cost model
- Choice of end-user relationship
- Make policy retroactive
- Expiry of lost registrations