



Internet Operations and ARIN Policy - Is There Convergence?

NANOG47 / ARIN XXIV
Dearborn, MI

Aaron Hughes, 6connect, Inc.
aaron @ 6connect.net

Unifying Internet Infrastructure

www.6connect.net

RELAXED TRANSFER POLICY

- Transfers are happening regardless of LIR support.
- There are companies which will need IPv4 resources to survive post IANA and RIR run-out.
- Operational impacts with or without a policy in place.
 - + Hopefully better impacts with
 - + Your involvement in policy process is essential.

RELAXED TRANSFER DRAWBACKS

- Closing a sale now involves IPv4 resources.
- Justification process harder on our customers (and our staff).
- Neither SBGP nor signing authorities in place.
- There are bad people trying to make money from:
 - +Resources they are assigned.
 - +Resources they are not assigned.
- LIRs are not very good at tracking resource assignments today. (LOAs, IRR, whois checks)
 - +Most of these updates are easy to spoof.

RELAXED TRANSFER DRAWBACKS

- M&A will be much harder to determine net worth of asset. (more work for legal and due diligence)
- Company officers all over the world now know they need more space. (Intent to educate about IPv6)
 - + Fiduciary responsibility to not run out. (with or without policy)
 - + Their staff objecting to IPv6 (lots of reasons some real some not).
 - + Higher potential for fraudulent resource utilization reporting.
 - + Higher potential to waste IPv4 resources now to justify space long before need. (NAT to pub v4 for example)

RELAXED TRANSFER BENEFITS

- Contact information is more likely to be accurate with a system that updates upon transfer
- At some point clean transfers / known space will have higher value than black market resources.
- Gives us the option to stay in business if IPv4 resources are needed for survivability.
- Forcing better tools and policy to verify assignment ('ownership'). (SBGP, signing authorities, something else?)

RELAXED TRANSFER BENEFITS

- Routing table growth will force clean up of de-aggregated prefixes that do not need to be.
 - + Potentially force conditional route-maps / routing policies to be enforced to reduce announcements when not needed for TE.

RELAXED TRANSFER POLICY

- Actions
 - + Validate your current process
 - + Prepare for some flavor of signing
 - + Inform your sales staff and modify process as needed
 - + Inform your abuse staff
 - × It's going to get harder to manage spammers etc.

- If you haven't already, start using IPv6 to reduce the impact of transfers.

- If you don't like something, change it! Get involved in the policy process!