



Minimizing Impact of ARIN policies upon the Operator Community

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Introduction

- Personal Introduction
- Why this presentation
 - Change in ARIN focus
 - Incoming policy queue
 - ARIN Board of Trustees

Alaska life be like...



What this is and isn't

- We aren't trying to get feedback on the language of the policy.
- We aren't trying to gather support for specific policies
- We DO want to know if the general concepts are sound and wanted by your community
- We DO want to know if you are unduly impacted
- We DO want to provide different ways of getting your feedback

WE'RE MAKING POLICIES FUN AGAIN!



...again?

Agenda

- Part one summarizes the current ARIN policies under discussion by the Advisory Council, and how the proposals will impact the operator community.
- Part two focuses on policies surrounding database cleanup issues with regard to Point-of-Contact cleanup, WHOIS, law-enforcement objectives, abuse monitoring and reporting, and the challenges involved in ensuring accuracy while minimizing the impact on the operators and the maintainers.

ARIN Policies

- ARIN policies impact the operator community
- POC validation and WHOIS data accuracy
 - the less accurate up front, the more work required to reconcile
 - automated tooling breaks
 - Law enforcement is delayed by erroneous data

RDP ARIN-2017-3

Annual POC Validation

- Requires POCs to annually validate
- Sent to ARIN Board, implemented Jul 2018
- Impact:
 - Every POC must be manually validated by email

RDP ARIN-2018-3

Remove Reallocation Requirements for Residential Market Assignments

- Removes requirement to "reallocate" networks to subscriber markets and users
- Sent to ARIN Board
- May cause break in automation tooling
- Minor rewrites to automation tooling may be needed to bypass POC creation and reassignment record creation

RDP ARIN-2017-12

Require New POC Validation Upon Reassignment

- Requires validation prior to DB insertion
- Remanded back to the AC for continued work with input from operator community
- Causes breakage in automation tooling that expects DB inserts to be automatic and immediate
- Requires major rewrites in automation tooling to track POC validation status and error handling

ARIN-2018-5

Disallow third-party organization record creation

- Restricts OrgID creation to the primary business entity, not by third-party orgs.
- Causes breakage in automation tooling that expects to be able to immediately create 3rd-party OrgIDs for downstream assignments.
- Requires rewrites in automation tooling to use 'simple reassignment' methods instead.

ARIN-2018-6

Clarify reassignment requirements

- 'simple reassignments' minimize work for POC maintenance
- Only the customer name is needed.
- Causes breakage in automation tooling that expects to be able to create POCs for all assignments
- Requires rewrites in automation tooling to use 'simple reassignment' methods instead.

IPv4 Waitlist

- The IPv4 Waitlist has been suspended
- ARIN Advisory Council is working on new policy
- Potential impact
 - Additional requirements to participate
 - Delays in receiving resources from waitlist
 - Additional restrictions on resources

Questions

- Who uses automated tooling for creation of POC's, reassignments, or other database tasks?
- Do you use commercial tooling, or internally developed?
 - For commercial tooling, what is your expectation that your product can be adapted for these changes?
 - Are you willing to pay for customization?
 - How long should this take / will you wait?
 - For internally developed tooling, what level of effort (t-shirt size) would you expect this change to be?
 - How long should this development take / will you wait?

...more questions

- What is your expectation of ARIN during the development cycle?
 - Should ARIN hold off on implementing until indication of completion from:
 - some number, or percentage, of operators
 - a totality of specifically identified providers (used as a yardstick against the community)
 - ARIN will implement immediately, but the RSD should support manual intervention
 - some other method?

Feedback

- ARIN Meetings
 - ARIN43, Barbados, April 7-10
- ARIN policy consultations at NANOG
 - ARIN44+NANOG77, Austin, Oct 28 - Nov 01
- PPML
 - arin-ppml@arin.net
- Proposals Online
 - <https://www.arin.net/policy/proposals>

Part Two

- ARIN database cleanup
- WHOIS, POC

WHOIS data is important



Stats History

- Previously presented at NANOG70
- <https://www.nanog.org/meetings/nanog70/agenda>
- <https://youtu.be/9koU2naDxJY>
- https://www.nanog.org/sites/default/files/3_Nobile_Whois_Data_Accuracy.pdf

POC Validation Stats

- 998,116 total POC
 - 234,259 are validated
 - 348,374 are not validated
 - 415,483 are Orphaned
- 59.8% of non-orphaned POCs are not validated

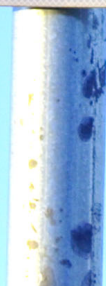
* numbers as of 2019-01-31

Easing Validation Impact

- POC validation starts with an email request.
 - Click the “validate” link in annual POC validation email **OR**
 - Reply to the POC validation email with the word **CORRECT** in the subject line
- Either of these two methods can be automated
 - Audit trails provide a valuable record
- Automation doesn't solve incorrect data
 - only validates the email address association

Bad data everywhere

- Whois contains lots of bad data
 - Automated detailed reassignments with invalid data
 - Orphaned records
 - “black ops” transfers
- What can we do about it?



STOP!

- Don't perpetuate bad data
 - Fix the automation tooling
 - incentivize employees to fix bad data early
 - use simple reassignments
- Clean-up isn't fun or flashy, but it decreases work down the road

Thank You



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Feedback reminder...

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