

Computação Científica Nacional FCCN



The Anti-Hijacking Policy Proposal





Hijacks Happen. Everyday.

- bgpstream.com
 - See «possible hijacks»

- Several different goals
 - Traffic interception
 - Diversion for law enforcement/jurisdiction
 - Injecting/sending toxic content without being identified or bothered



BGPStream About



– More...?

- Hardly.
 - Upstreams might cancel service
 - IXPs may kick hijackers out, if they hijack through the IXP

- NONE, at REGISTRY level.
 - Hijackers are able to maintain service agreements and allowed to be part of the registry ecosystem



 Hijackers keep their legitimately obtained numbering resources -- which they use in hijacks Who Manages Numbering Resources? Who makes the rules?

• Regional Internet Registries do.

• You might have heard about the RIPE NCC...

- Is the RIPE NCC making the policies that allow the «hijacking party to go on»?
 - NO
 - The «RIPE community» builds policies i.e.
 «me», «you», «us».



The Policy Development Process...

https://www.ripe.net/participate/policies



What are we proposing?

- Hijacks are not tolerated
 - Mistakes are out of scope
- Persistent Intentional Hijacks are to be declared a RIR policy violation
- Community Experts should be able to rule about that
 - Several experts per case. Need to decide unanimously



- If more than one policy violation occurs, RIR membership may be lost
 - RIR Service Contract terminated
 - Numbering resources revoked
 - Only after the company involved had the chance to object and explain there is a misunderstanding
 - «Checks & Balances»
 - Avoid at all cost that a mistake is made while evaluating a case





The main hurdle...

<...> is not the Routing Police.

• It is a design feature that no entity alone can supervise routing.

- But how this justifies nothing can be done, when org X is announcing address space from org Y, without their approval.
 - …and anyone can see it!



Arguments Opposing 2019-03

- The registry is like a «land registration office»
 - RIRs are membership-based; RIRs distribute assets.



- So why is a registry needed?
- This policy, if accepted, could be weaponised
 - There is a number of safety knobs; several experts will look at each case.
- There are huge legal risks to the registry itself
 - Closure of membership is already established; that can happen only if members don't follow established registry rules/policies.



Arguments Supporting 2019-03

- The Registry's purpose and the region's reputation
- The gap in the policies needs to be closed
 - Consequences for hijackers are needed in order to reduce the use of this «technique»
- There are several sources with abundant routing information
 - Which can be used to determine if an hijack took place and if it was intentional
- Tools like RPKI and MANRS are not enough
 - For the time being, given their limited adoption







Important detail to have in mind...

• Who are the victims of an hijack?

1) The legitimate number resource holder

- Anyone who receives an hijacked route announcement
 - i.e. potentially *everyone*



Fresh News about RIPE NCC members' closures...

• Stats published last month

Closures for Provision of Untruthful/Misleading Information



How to participate?

- Subscribe to the Anti-Abuse Working Group Mailing List
 - https://www.ripe.net/mailman/listinfo/anti-abuse-wg/

- Do express your opinion on the list
 - «I support 2019-03»
 - Write «why», if you can spare the time



- You can obviously instead oppose 2019-03
 - Saying «why»
 - Or saying where the proposal can be improved (in further versions)

Policy-wise: A Global Effort



RIPE: **2019-03**

- LACNIC: LAC-2019-05
- ARIN:
 PROP-266
- AFRINIC: AFPUB-2019-GEN-001-DRAFT01
- APNIC: <queued>

Questions



https://anti-hijacking-proposal.tk

(text, mailing list subscription links, archives and presentations)



