Coordination and Authorization Issues in IP Address Allocation and Delegation

Randy Bush
RGnet
randy@psg.com

NANOG San Diego
95.02.15

ftp://rg.net/pub/misc/960215.nanog.ps

The Problem:

Is a Prefix Portable or Not?

Who may announce prefix P?

The person in the SWIP or their nearest default-free upstream?

But can they take it with them?

How can a provider, know if a prefix is portable?

Currently, we can not.

The Problem:

Is a Prefix Portable or Not?

May a hole be punched in prefix P?

Some registries base their decision on whether P's SWIP is aSsigned or Allocated.

This does not match what the SWIP 1.4 doc says

> IP addresses are either allocated or assigned. The IP addresses issued to a customer who will then assign them to its customers are considered allocated. For example, if you are issuing IP blocks to your ISP customers for future reassignment you would place an A for "Allocated" after the colon. IP addresses issued to end-user customers to number their internal hosts are considered "Assigned" and you would place an S after the colon.

Conclusion:

Currently, we have no way of knowing if a prefix is portable.

Some possible solutions:

In Ann Arbor it was hummed that the RRs would have a 'punchable' attribute.

Whois could include the explicit data

- is it portable?
- is it punchable?
- who has the right to say?