NWI-4 Tuple Impact Analysis

RIPE NCC Database Team

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NWI-4 Requirement

- "Come up with a proposal for the status: field to fix the requirement that certain objects may need multi-valued status"

  - AP70.2

- "Some believe that the main underlying issue here is that it is currently not possible to **create an assignment that is the same size as an allocation** in the RIPE Database. And resource holders are of course supposed to create an assignment for the address space in an allocation that is in use, by address policy."

  - Job Snijders, NWI-4 Problem Definition

Option (1) New Status Value

- Add a new "status:" value ALLOCATED-ASSIGNED PA

- Impact analysis published December 2022

  - Inetnum must remain co-maintained between the RIPE NCC and the LIR, and not by the end user

    - Assignments have different mnt-by (36%), org, admin-c, tech-c … attributes

  - Also client software must interpret the new status value as *both* an allocation and an assignment.

- (One comment at RIPE86) "expressing a preference for the combined primary key (prefix/status) rather than simply changing the status"

  - Denis Walker, NWI Update

Option (2) Inetnum & Status Tuple

- Use the combined "inetnum" and "status" tuple as the primary key.

- Impact analysis <u>published</u> September 2023

  - There is a precedent: we already use a tuple in route(6) objects

  - Clients need to be updated to be aware of this tuple

  - Also RDAP does not allow for inetnum and status tuple