

RIPE Database Requirements Task Force

Address Policy Working Group Update



Task Force Members



- Nick Hilliard
- James Kennedy (co-Chair)
- Shane Kerr (Vice Chair)
- Peter Koch
- Sara Marcolla (until February 2021)
- Bijal Sanghani (Chair)
- Email: <u>ripe-db-requirements-tf@ripe.net</u>

RIPE NCC Support:

- Boris Duval
- Maria Stafyla
- Edward Shryane

RIPE Database Requirements Task Force



- The RIPE Database Requirements Task Force was formed in October 2019 as an outcome of the Big Picture BoF that took place at RIPE 78 in Reykjavik, Iceland.
- The Task Force is tasked to produce a RIPE document listing the requirements for the RIPE Database and their rationales.
- The purpose of the document is to establish community consensus at the general level. Software development, deployment and other implementation details are out of scope.
- https://www.ripe.net/participate/ripe/tf/rdb-requirements-tf

Our Work So Far



- Monthly meetings (minutes publicly available)
- Two surveys
- Community feedback (ripe-list, BoFs, DB-WG chairs)
- Updates at RIPE 80 and RIPE 81
- Data and information collection (with support from the RIPE NCC)
- One draft published

DBTF Recommendation



- Remove requirements for registering IPv4 PA Assignments in the RIPE Database, but still make it possible for users who want it
- Give IPv4 PA Allocation holders freedom free to make\register assignments or not
- However sub-allocating or partitioning part of IPv4 PA address space to another entity should be documented in the RIPE Database

Background



- ALLOCATED PA: address space allocated by the RIPE NCC to an LIR
- ASSIGNED PA: address space from the ALLOCATED PA that has been assigned to the issuing LIR's infrastructure or an End User for use with services provided by the issuing LIR
- IPv4 policies require all PA Assignments ('status: ASSIGNED PA' inetnum objects) to be registered in the RIPE Database
- A core reason for registration of IPv4 PA Assignments was to justify additional IPv4
 Allocations

However, since the RIPE NCC ran-out of IPv4 in 2019, is this policy still applicable?

Registration inconsistencies in the RIPE Database



 Some holders register more information than needed (e.g., create PA Assignments for individual IP addresses), while many others don't make any PA Assignments at all

Over Assigning	Under Assigning
 /32 PA Assignments = 530,995 (out of a	 PA Allocations without any child PA
total of 4,206,427)	Assignments = 16,232
 420,518 held by 13 LIRs, with more than	 793 held by 12 LIRs, with 50 or more
10,000 /32 ASSIGNED PA inetnums each	'empty' PA Allocations each
 Few LIRs registered bulk of tiny assignments 	9,986 LIRs hold PA Allocations containing no PA Assignments

Other considerations



- LIRs with /24 PA Allocations must also register PA Assignments, but RIPE Database doesn't allow inetnum objects with same range
 - Forced to register /25 inetnum objects or smaller
 - What is the benefit? Seems arbitrary and difficult
- Data minimisation as part of Data Management Principles
 - Less data for Database users to maintain = easier to keep up-to-date => more accurate and useful common database for everyone

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Feedback



- Published
 - Topics on WG mailing lists
 - RIPE list: ripe-list@ripe.net
- · Non published
 - <u>ripe-db-requirements-tf@ripe.net</u>
 - Contact TF members directly