



RIPE NCC

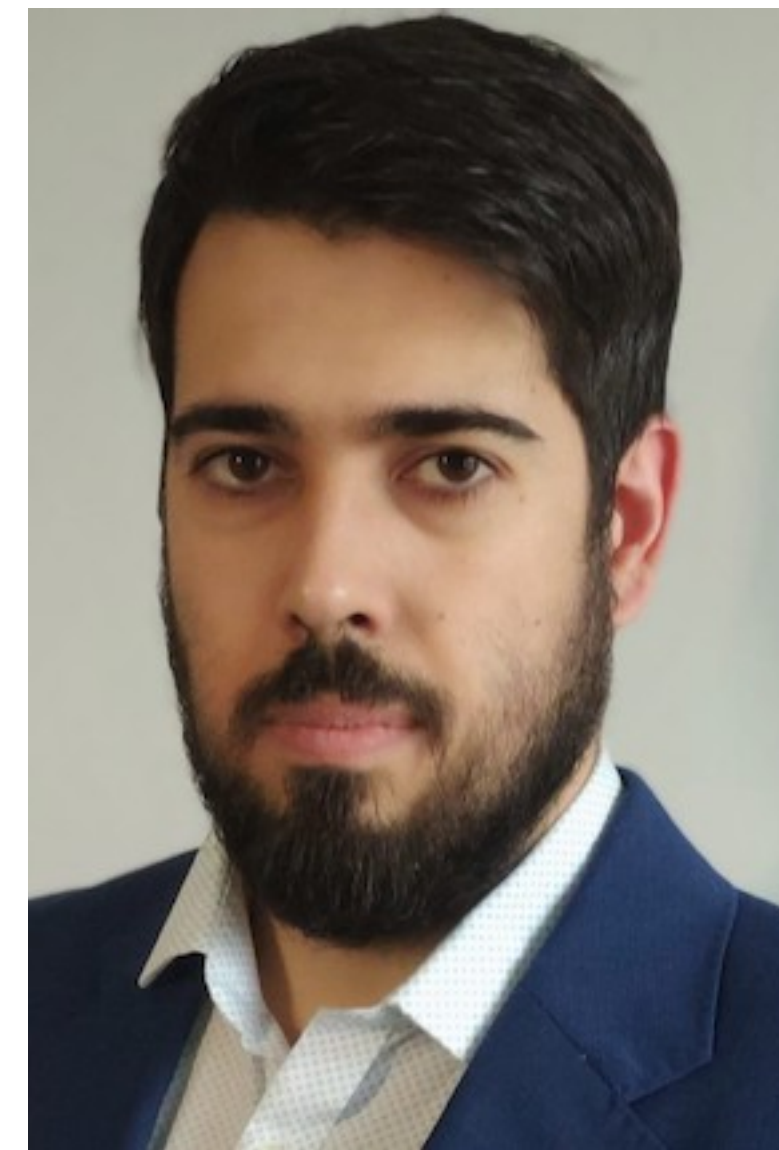
RIPE NETWORK COORDINATION CENTRE

Operational Update RIPE Database

RIPE NCC Database Team

Ed Shryane | RIPE 85 | 27 October 2022

The RIPE NCC Database Team





Progress Since RIPE 84

Whois Releases



- Whois 1.104 (October)
 - Added cidr0 notation for **RDAP** response
 - Removed **whois tags** (flags and data)
 - Allow grouping (-G) flag in Whois Search API
 - Added **text/plain** to Search and REST APIs
 - Add/update/removing a comment is not a NOOP
 - Do not allow comments in managed attributes
 - Organisation **country: is modifiable** for end-user orgs without RIPE NCC resources

Whois Outages



- Between approximately 09:00 - 16:20 (UTC+2) on 1 September 2022, the Whois Mail updates service was unavailable.
 - Mail sent to auto-dbm@ripe.net was returned as undeliverable
 - Exim **package update** caused configuration to become invalid
 - Improve testing and monitoring, investigate delivering mail directly to Whois
- Between 7th - 11th October, the RIPE Database e-learning environment was inaccessible over IPv6
 - Caused by updated **firewall rules** following server migration
 - Improved external monitoring

Whois Features - Statistics



- 2017-02 Regular Abuse-c Validation
 - **92K** abuse-c addresses, **19K** to be validated (on track to complete validation in 2022)
- 2018-06 “RPKI” NONAUTH Route(6) Cleanup
 - Deleted **75** route(6) objects since RIPE84
- “Unregistered Prefix” NONAUTH Route(6) Cleanup
 - Deleted **13** route(6) objects since RIPE84
- NWI-8 (Synchronise LIR Portal users to Default Maintainer)
 - **1,617** LIR organisations synchronising users (23% more since RIPE84)
- NWI-9 (Open NRTM Service)
 - **272** distinct client IPs using NRTM in September 2022 (34% more since RIPE84)

Cleanups



- Clean Up Locked Person Objects
 - 1K Persons with Locked maintainer replaced with ERX maintainer
 - 12K Locked persons remaining
- Removed Whois Tags
 - Tags removed from 2.5M objects (identifying user or registry resource)
 - Feature removed in Whois 1.104 release

Operational Work



- Replacing on-premise metal servers
- Containerise and upgrade Replication Manager
- Configuration Management

Web Application



- Making the Web application Open Source
 - Code will be public (reuse our code, contribute improvements, make bug reports)
 - Development in the open (follow progress on new features and bug fixes)
- RIPE NCC Access Session Timeout Notification
- New Release Notification
- Enabled HTTP/2
- Plain Text Option

White Pages



- DB-WG requested in March to deprecate White Pages
- Since RIPE84, The DB team have:
 - Deleted the White Pages organisation (ORG-PAGE1-RIPE)
 - Contacted the 4 affected persons and excluded them from deletion
- Exclusions from Cleanup Unreferenced Objects
 - **Let us know** what are the reasons for keeping unreferenced objects, for example:
 - Atlas anchor contact
 - Domain registry contact
 - Contact used across LIRs by consultant
 - Is this in accordance with the purposes of the RIPE database?

Default Maintainer



- User maintainer on LIR organisation is the default maintainer
 - User can only change the default maintainer in the LIR Portal
- Set Default Maintainer on **all** top-level allocations
 - including aut-num, inet(6)num LEGACY, ASSIGNED PI, ASSIGNED ANYCAST
- Set Default Maintainer on **transfers**
- Stop synchronisation when an LIR is closed
- Weekly consistency check
- Should we apply default maintainer to **existing** resources?

RIPE Database Documentation



- Migrated existing documentation to its own website
 - Separate open source repository maintained by DB team
 - Uses Markdown syntax; build pipeline to generate & deploy static site
- Advantages
 - Consistent UI across RIPE NCC (like RIPEstat for example)
 - Features like built-in search facility and API examples
 - Easier for DB team to keep text updated
 - Align documentation changes with code changes
- In Progress
 - Combine “legacy” database documentation from across the website

RDAP



- Implement Cidr0 profile
 - Express an IP range as one or more CIDR prefixes
- Implement NRO Profile
 - Increase consistency in RDAP service responses and simplify client development



Numbered Work Items

NWI - Progress Since RIPE84



- NWI-4 “Role of status: field in multivalued status context”
 - Registry Services (in progress)
 - Suggests waiting for the outcome of 2022-02 on assignment requirement
 - Drawback of combined status is that LIR and end user **cannot share object**
 - RIPE Database: Low impact
 - Allow user to switch between ALLOCATED PA and ALLOCATED-ASSIGNED PA
 - Update Business rules affecting allocations or assignments
 - Internal Registry: No Impact

NWI - Progress Since RIPE84



- NWI-10 “Definition of Country”
 - Country code is complete for 99.3% of ~20K End User organisations
 - We will publish available data in RIPE database on **Monday 31st October**
 - Newly issued resources will have the organisation country code
 - Registry Services are working on data for remaining end user organisations
 - Internal registry software changes in progress (internal database, delegated stats)
 - Country code is now editable in organisations without co-maintained resources
- NWI-12 “NRTMv4”
 - Contributed to [NRTMv4 draft RFC document](#)
 - Commenced work on server-side implementation



Upcoming Changes

Upcoming Changes



- NWI-10 Populate End User Organisation Country Codes
- NWI-12 NRTMv4 Server-side Implementation
- NWI-14 Protecting References to Objects in the RIPE Database
- Search UI (Full Text Search and API)
- Client Certificate Authentication (HTTPS)
- Restore Missing History



Questions



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