



New RIPE Database Software Functionality

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- Phase 1 Making "referral-by:" optional
 - Deployed 1.79.1
- Phase 2 Removing "referral-by:"
 - Planned for 1.80
 - RC: End May
 - Production: Early July (6 weeks)



Replacing "changed:" with "last-modified:"

- Phase 1 Adding "created:" and "last-modified:"
 - -Deployed 1.79.1
- Phase 2 "changed:" optional
 - -Planned for 1.80
 - -RC: End May, Production: Early July (6 weeks)
- Phase 3 "changed:" deprecated
 - -Planned for 1.81
 - -RC: Early July, Production: Mid August (6 weeks)
- Do we really need 6 weeks of RC?



- Historically there was no "org:" attribute
- Since 2013-04 "Resource Certification for non-RIPE NCC Members"
 - Now only RIPE NCC can edit "org:" for these inet6nums and aut-nums
 - Now only RIPE NCC can edit "org-name:" of referenced organisation
- RIPE NCC working on clean up
 - 10k objects, 8k done
 - Expected to finish before end of July
 - Until then checks are needed so that we know what has been verified
 - Will stop enforcing when fully done



Improving Usability (ongoing effort)

- We see a lot of issues in training courses, support requests and comments, chats, and usage analytics
- Easy tools for my objects, focus on known problem areas:
 - Improve security and usability: use SSO over passwords
 - Managing authorisations (500 lost access clicks / month)
 - Managing organisation contact details (fragmented for LIRs)
 - Managing reverse DNS (30 tickets / month)
 - Managing IRR data (data quality issues)
 - Etc..

We believe that **better** tools will support **better** data

• Web-, sync-, mail-updates and REST API for 'power' users



 Business rules can be used to enforce certain requirements that are not easily expressed in DB schema

e.g. prevent changing the name of an organisation referenced by resources allocated or assigned by the RIPE NCC.

- Currently mapping out <u>all</u> business rules
 - Plan to publish later this year
 - Need for error codes?



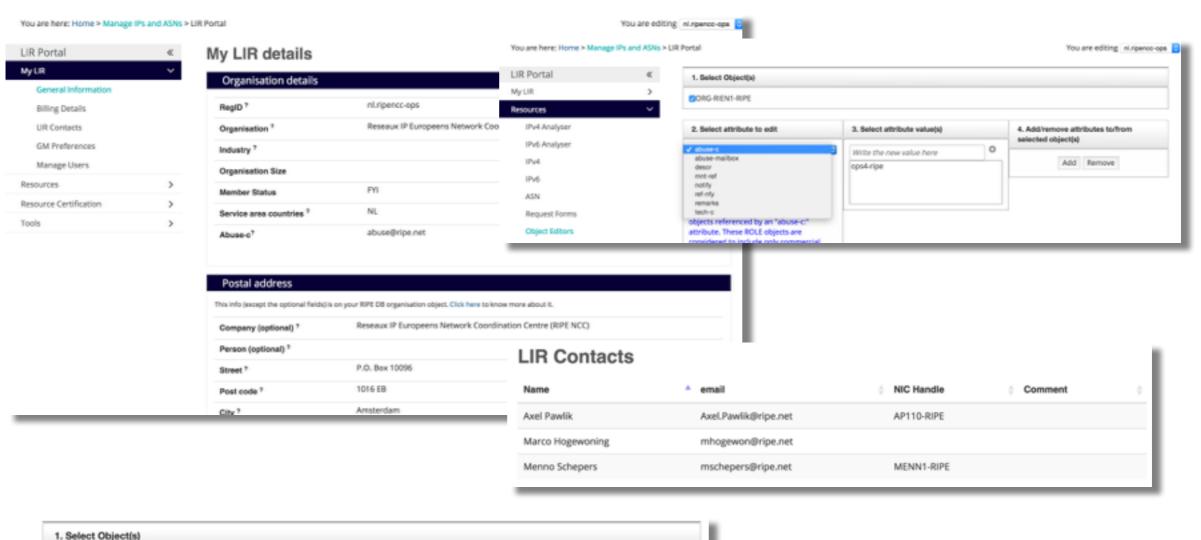
- Preferred model of sharing responsibility between RIPE NCC and users:
 - RIPE NCC maintainer can only be added/removed by RIPE NCC
 - At least one other maintainer
 - Per attribute rules about which maintainer can update
 - → Already using this for PI and Legacy

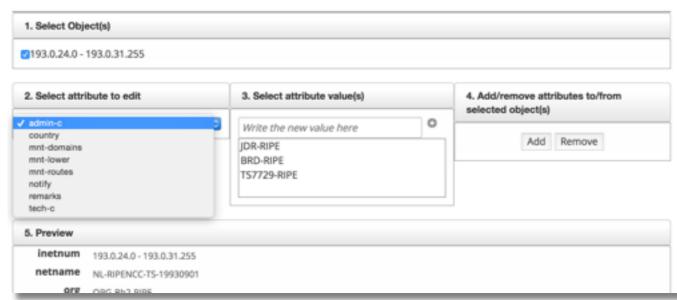


- Added to legacy resource objects that are registered under contractual relationship with the RIPE NCC
- This is a joint maintainer used to ensure the following
- To ensure correctness of the registry, only the RIPE NCC can
 - add or remove this maintainer
 - change which organisation object is referenced
 - change the name on this organisation object

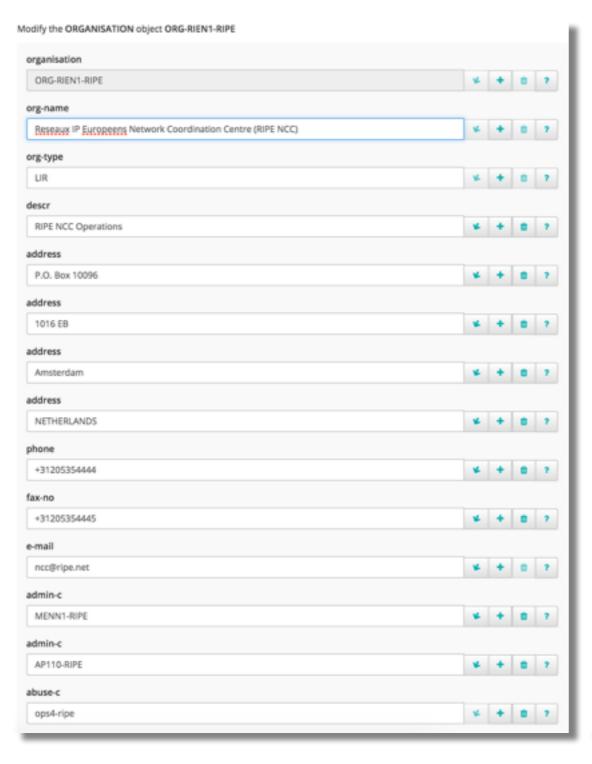


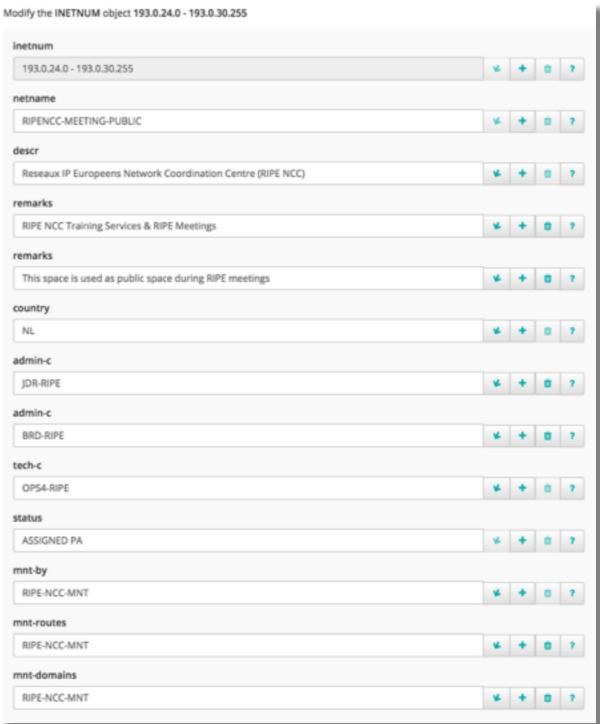
Maintainers on LIR organisation and allocations













Maintainers on LIR organisation and allocations

- Let LIRs have their OWN maintainer as well!
 - Business rules to protect what we need to protect
 - Allow users to use all normal DB updates
 - No more object editors!
 - Need mnt-lower, mnt-routes etc only to delegate to <u>another</u> maintainer
- Which maintainer?
 - Today de-facto: LIR Portal users
 - Have a 'default' maintainer with all LIR Portal users on it
 - But allow portal user to choose to use this, or another maintainer.
- Getting here will take time as we replace functionality one by one





