RAWhoisd extensions

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Current state

- two versions of the database
  - RIPE db 2.x
  - RAWhoisd based on RIPE db 1.x
- RAWhoisd was necessary for tools since RIPE db 1.x was missing a lot of features such as '-i'
- RAToolSet doesn't use all the RAWhoisd features

RAWhoisd features that RAToolSet needs

- !! -k in RIPE server
- !gAS1 -T route -i origin AS1 (new in 2.x server)
  but RAToolSet only needs 'route:' attributes
- !hHEPNET -T route -i comm-list HEPNET
- !iAS-FOO,1 expand macros, no equivalent
- !man,AS1 -T aut-num AS1

Tools other then RtConfig

- !mrt,128.8.0.0/16-AS226

  use -T route 128.8.0.0/16 or -i origin AS226
  but only exact match expected
- !r128.8.0.0/16 -T route 128.8.0.0/16
  but only exact match expected
- !r128.8.0.0/17,l -T route 128.8.0.0/17
  but the least specific route in all searched registries expected

Proposal

- given an object type and its unique key,
  return the first matching object:

  -T route -unique_key 128.9.0.0/16;AS226

- given the value of an attribute,
  return all objects (already supported)

  -T route -i origin AS1

Proposal

- ability to return only the values of particular attributes:

  -T route -unique_key -project route,origin 128.9.0.0/16;AS1
  -T route -i origin -project route,origin,source AS1

- ability to expand as-macros/as-sets/rs-sets

  -T as-macro -expand -project as-list AS-ANS

- true less specific route lookups (can we change this?)

  -type route -l 128.9.0.0/17

Conclusion

- RIPE server is close to supporting RAToolSet
- small extenstions to the RIPE server are enough
  - performance enhancements can cost more work
- we can deal with slightly different output