



# RIPE Whois Database Software

## *Recent Changes*

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# X.509 Support

- Part of *Improved Secure Communication System for RIPE NCC Members*
- KEY-CERT class changed
- Update mechanisms updated
  - E-mail supports S/MIME
  - webupdates/syncupdates support client SSL certificates



# Organisation Object Type

- Provides easy way of mapping resources
- May be linked to any object type, by “org:” attribute
- Queries
  - Lookup by handle or name
  - Inverse queries
  - Referenced organisations are returned by default
- Initial organisation objects
  - IANA, RIR, LIR organisation objects
  - Updated INETNUM, INET6NUM, and AS-BLOCK



# Reverse DNS – the Old Way

- DOMAIN objects, DNS zone files separate
- E-mail [auto-inaddr@ripe.net](mailto:auto-inaddr@ripe.net)
- Problems:
  - Separate interface for maintaining DNS
  - Direct database updates did not affect DNS
  - No support for web updates, X.509, etc.
  - Lack of full automation
  - Policy required significant work from LIRs



# Reverse DNS – the New Way

- DOMAIN objects are the sole source.
- DNS periodically rebuilt from the database.
- E-mail to [auto-dbm@ripe.net](mailto:auto-dbm@ripe.net)
- Policy constraints reduced:
  - ALLOCATED space can be delegated
  - Non-LIR users can delegate space



# NONE Authentication Deprecated

- Maintainers modified
  - “auth: NONE” removed
  - If necessary, password generated with MD5-PW
- RIPE-NCC-NONE-MNT
  - Changed to RIPE-NCC-LOCKED-MNT
  - Special URL sent to contacts to create new maintainer
- RIPE-NCC-RPSL-MNT
  - Password published in object



# Other Database Changes

- CIDR notation for INETNUM creation supported
- Prefix range lists for “mnt-routes:” implemented
- Overlapping INETNUM objects prevented



# Contact, Further Information, etc.

- RIPE Database Working Group:
  - <http://www.ripe.net/ripe/wg/db/index.html>
- RIPE Whois Database Web Page:
  - <http://www.ripe.net/db/>
- RIPE-DBM:
  - [ripe-dbm@ripe.net](mailto:ripe-dbm@ripe.net)
- DataBase Re-Implementation Project:
  - [dbrip@ripe.net](mailto:dbrip@ripe.net)



