RIPE ncc

Software Status

- stable
- no major disasters (except disk space probs)
- many bugs found and fixed
- many extensions proposed and implemented

- unfortunately still beta:
  - many changes
  - time constraints
  - me moving to PRIDE

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Extensions

- `notify` attribute in all objects (ripe-096)
  - will send notifications if change or delete
  - no notifications on NOOP
  - is multiple, but please do not go mad

- guarded field addition
  - SINGLE value guarded attributes (aut-sys)
  - handles conflicts by sending mail to guardians and leave value unchanged
  - will report when nets in guardian files are not found in database

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Extensions

- automatic RIPE handle assignments
  - not too well tested yet
  - mainly because of data exchange
  - needs discussion?
  - “nic-hdl: assign” will cause sw to assign a new handle
  - “nic-hdl: assign RIPE-MT89” -> vanity handle
  - tool under construction to assign handle from your workstation

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Problems

- improving this stuff can be full time job
  - optimisation
  - extensions
  - perl4 -> perl5...
- documentation
  - technical/implementation
  - “user guide to the RIPE database”
- getting it released properly
- block splitting

Thank you:

- for finding loads of bugs/inconsistencies and suggesting improvements:
  - Arnold Nipper
  - Piet Beertema
  - GARR NIS
  - Petri Helenius
  - Tony
  - ...

Guarded attributes

- draft document by Tony circulated
- PLEASE READ the document
- current and new guarded attributes:
  - bdrygw-l (ripe-60)
  - routpr-l (ripe-60)
  - aut-sys (ripe-81)
  - comm-l (ripe-81)

Guarded attributes

- basic procedure
  - guardian keeps a file on guardian.ripe.net
  - attr are added according to this file
  - additions once a day at DB cleanup time (5AM currently)
- guardian account
  - one account per guarded value in restricted environment
  - rlogin or ftp to update guardian file
  - all guardians reachable as: `<"guardedvalue"@ripe.net>` eg `<AS1104@ripe.net>`

Guarded Attributes

- restricted environment
  - “chroot” filesystem
  - can only change your own guardian file and .forward
  - editors and syntax checkers available
  - password changes take one night to process (not implemented yet)

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Guarded Attributes

- guardian file
  - currently auto-generated from EBONE routing table for AS
  - auto-generation stops whenever an account is activated and will stop when aut-sys becomes guarded (plan Feb 7th)
  - can contain comments (“#” or “;”) and understands network blocks
  - `checkguard` tool available to check syntax of guardian file
  - no syntax check done at cleanup time!!!!!

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Guarded Attributes

- Conflict handling
  - for single value guarded attributes (only aut-sys for the moment)
  - if network appears in more than one file both guardians will receive a conflict report, and the current value remains unchanged
  - will also report on networks in file but not in database
  - reports are send to `<"guardedvalue"@ripe.net>` so make sure .forward is correct....
  - emergency “redo” procedure