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RIPE Database Transition Plan

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W h y ?

- Major changes to schema
- Major changes to procedures
- Major changes to interfaces

They need coordination, careful planning and information to the "users"

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H o w ?

- 2 "big-bang" types of changes
  - changes that cannot be gradually phased in
  - we call them B1 and B2
  - they happen at T1 and T2
- Other changes gradually phased in
  - most of them available from T1
- Transition completed at (B2+time it takes to stabilise)

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C l a s s l e s s S u p p o r t

- Changed "whois" interface
  - classless queries
  - different output (more/less specifics)
  - may affect tools that rely on output
- Slightly changed "update" interface
  - will understand/translate most IP number notations
  - will still understand "old style"
- Provider blocks (193.1/16, 193.2/16,...) will now be registered

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Classless Support

- Guardians will have to change their guardian files to exactly match objects needing tagging
  - we will provide “problem” file
- “Big bang” change because it needs new software
- Will happen at B1
- Changes to tools that rely on output, and guardian files need to be done between now and T1

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Authorisation

- Objects can be properly maintained and authorised
  - available with new sw at T1
- Guarded objects no longer need ripe-dbm intervention, they can use “mnt-by:” features.
  - available with new sw at T1
  - guarded objects not yes maintained still need intervention from ripe-dbm
- Guarded attribute procedure can be replaced with authorisation procedure

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Auth. and Guarded Attributes

- Move to routes removes necessity for current guarded attribute procedure
- Routes can simply be “maintained by” folks responsible for their AS(es); ensures authorisation
- Communities will work through notification
- Bootstrap problem: when generating route objects, they will not be maintained
  - we will generate suggested “mntner” objects for all guardians
  - guardian can change these objects
  - at route generation time, we will insert a “mnt-by:” pointing to these objects

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Auth. and Guarded Attributes

- Needs to be in place at T2
- Together with the introduction of “route” (next bit) the biggest and most important change
  - will need some work for guardians!!

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- "inet-rtr" object
  - available from T1
- extended "aut-num" syntax
  - available from T1
- "inetnum" to "inetnum" + "route" split...

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- auto generation of "routes" and new "inetnums" from current "inetnums" + guardian files at T1
  - new.route
  - new.inetnum
  - NOT inserted in database until T2!!!
- auto generation of suggested "mntner" objects for guardians
  - can be changed by guardian until T2
  - will be used to tag "routes" at B2
  - "ias-int" is preserved in a kludgy way, guardians should migrate to "inet-rtr"

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Results after B2

- Fully functional classless database
- Fully functional authorisation/notification mechanism
- No special guarded attribute mechanism
- Complete support of ripe-81++
- A lot of work for MT+TB ;-)

During this whole transition period, emergency changes are always possible!!