“mnt-lower:” issues with inetnum

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Background & Proposal

- RPSS
  - Rules defined for object creation
  - Applies to IRR; aut-num, route, sets
  - If no “`mnt-lower:`”, use “`mnt-by:`”
- Registry objects
  - inetnum, inet6num, domain
  - If no “`mnt-lower:`”, *no protection*
  - Non-intuitive, “unsafe by default”
- Proposal to fix this
  - apply RPSS-style protection to all classes
  - http://www.ripe.net/ripe/mail-archives/db-wg/2003/msg00033.html

Problem with Change

- ALLOCATIONS are "`mnt-by:`" RIPE NCC
- Some inetnum objects have no "`mnt-lower:`"
  - 1045 ALLOCATIONS (18%)
- These LIRs could not create ASSIGNED inetnums, i.e properly operate the registry

Inet6num & domain objects

- *All* IPv6 allocations have “`mnt-lower:`”
  - total number 250
- Domain objects: no need for changes
  - total number 110591
  - no “`mnt-lower:`” 102925 (93%)
  - “`mnt-by:`” points to user’s maintainer
  - sub-domain creation will be authorised by parent’s “`mnt-lower:`” or “`mnt-by:`”

Investigation & Solutions

- Heuristics to determine “proper” “`mnt-lower:`”
- Use maintainer from “`mnt-by:`” on all assignments: 454 (43%)
- Use maintainer from “`mnt-routes:`” on allocation: 16 (1.5%)
- Use maintainer from “`mnt-lower:`” on other allocations: 1 (0.09%)
- Use maintainer from “`mnt-routes:`” on other allocations: 0 (0%)
- Use maintainer whose name is related to LIR’s name: 215 (20.5%)
- Use maintainer whose description is related to LIR’s name: 168 (16.1%)
- If no maintainer is found: 191 (18.3%)
  - Generate new maintainer
  - Password accessible from LIR Portal

Migration Path

- Prepare the list of allocations and possible maintainers (done)
- Notify allocation contacts about the proposed changes
- Wait for feedback, gather new data
- Generate new maintainers, update the allocations
- Deploy RPSS-style authorisation algorithm in RIPE Database Software for inetnum, inet6num and domain objects