

IRRToolSet Use @ Deutsche Telekom

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use of IRRToolSet in DT (TROPOS generator)

- TROPOS generates complete eBGP config
- IRRToolSet (*library*) only used for RPSL route-set expression evaluation + AS-path regexp
- main use case: rigid prefix filters for customers +more
- no other tool set known with sufficient scope:
 - access to different type of data bases
 - evaluating RPSL expressions (mainly route-set)

fixes

(most due to Hagen Böhm)

- some small stuff (partially mirrored back)
- ensure ABORT with exit code for all database access problems
- do some diagnostic output on abort (expression stack dump)
- problems:
 - stuck with an ancient Solaris environment
 - did not fully synchronize with 5.0.0 (and immediate predecessors)
 - how to move to a current environment + synchronize/publish

extensions

- allow proxy server (using standard HTTP tunneling)
- alternate (to RtConfig or peval) slim front end IRReval supports output
 - RPSL (route-set:)
 - vendor specific (JunOS, IOS, IOS-XR) filters
 - not yet AS-set (would need to do a syntax extension!)
- optimized options for feeding validated ROA info
 - per AS route-set for all ROAs
 - modify AS-set resolution exclusively from ROAs or from RPSL route:s + ROAs (only RIPE-style db)

my view forward

- RPKI is getting ready to be used, should be taken serious, and can be used (even without router sw upgrades)
 - development efforts are best spent in this future direction
 - starting significant new development for RPSL of dubious value
 - starting to deploy RPSL new now seems bad timing
- for networks having already tool chains (what else than RPSL?) a little tweaking for feeding RPKI data can make sense
- there are even low hanging fruit that work essentially without tweaking
 - like: RS-RPKI-MUST-BE-INVALID (even solves YouTube criterium!)