use the force

Innovative route-server features to assist customers

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current situation

- filter based on IRRdb OR

- filter based on RPKI OR

- no filters at all OR

- max prefix

- done on route-servers OR

- peering routers OR

- not all

problem

- AS-SETs / IRRDBs too big

- routers can't have big filters

- no infrastructure for automatic updates

- RPKI not fully deployed

idea

- route-servers are better at route-filtering than routers

- filter on IRRDB, RPKI, weather etc

- add BGP community based on result

- peer decides based on BGP communities about reject/accept

practice

- peer announces route to routeserver

- route will run through the filter

  irrdb valid -> attach 65100:100

  irrdb invalid -> attach 65100:101

  rpki valid -> attach 65100:200

  ....

- route gets announced to peer

- peer filters e.g. reject 65100:101 and accept only 65100:100

conclusion

- peers can decide what they want

- routeserver is fully transparent

- less load on routers

Thanks! ευχαριστώ!

Questions? Comments?