

# Request for clarification for RFC4360

Bruno Decraene  
Laurent Vanbever  
Pierre François

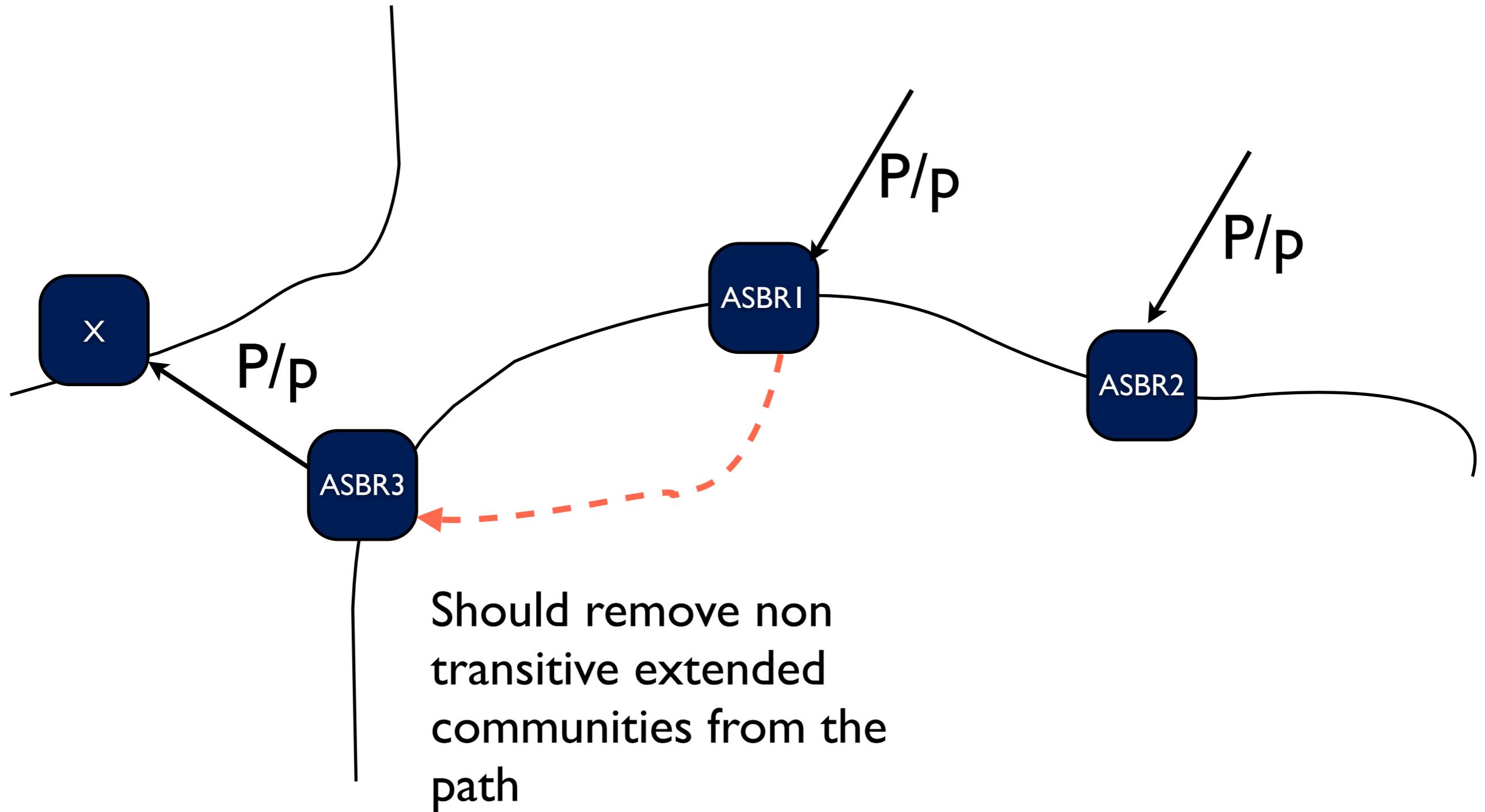
*If a route has a non-transitive extended community, then before advertising the route across the Autonomous System boundary the community **SHOULD** be removed from the route.*

*Section 6 of RFC4360*

# Why SHOULD ?

- Some specific cases for which you'd like to transit non transitive communities...

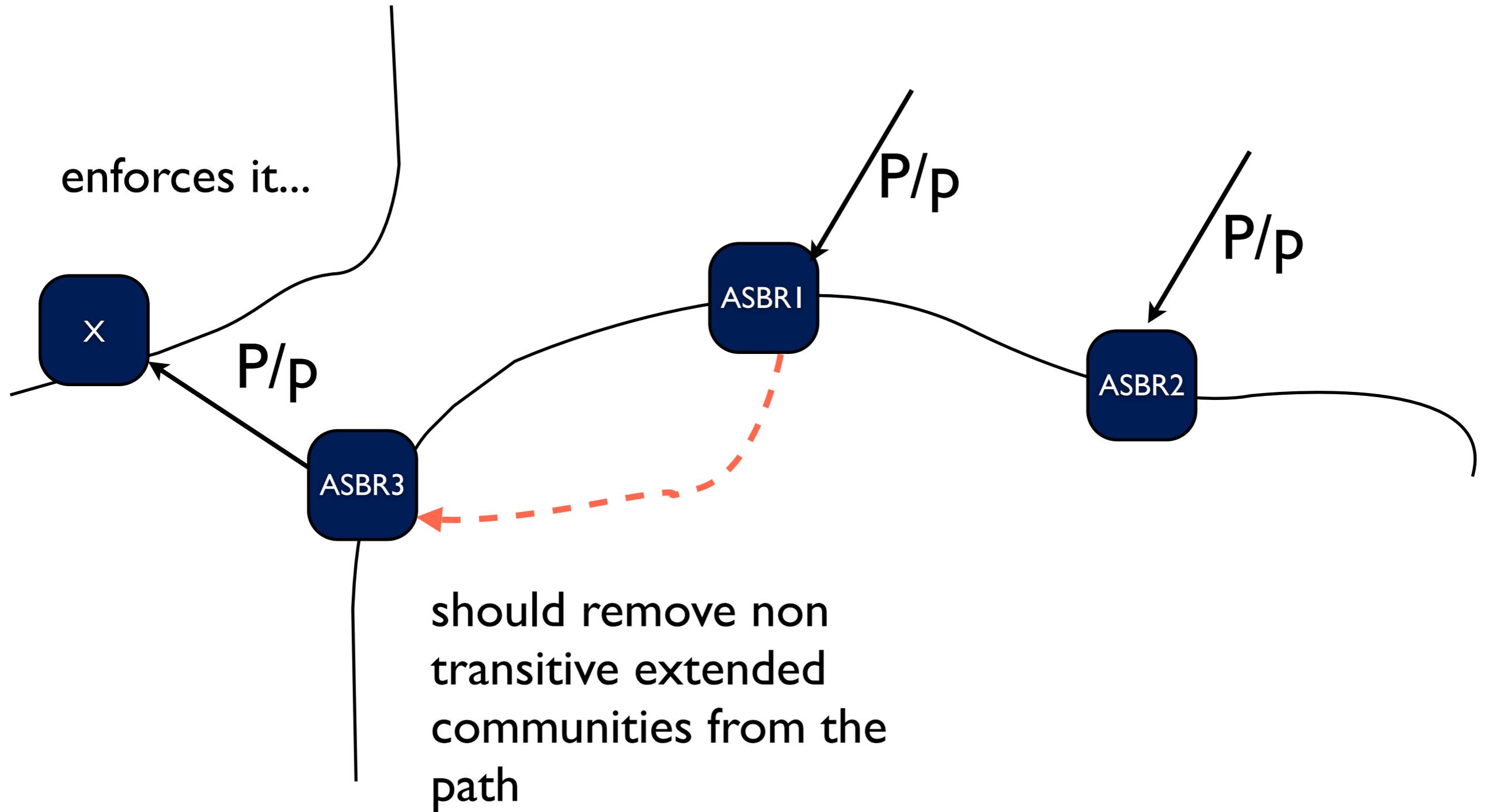
# What does that mean ?



# Observed Behavior I

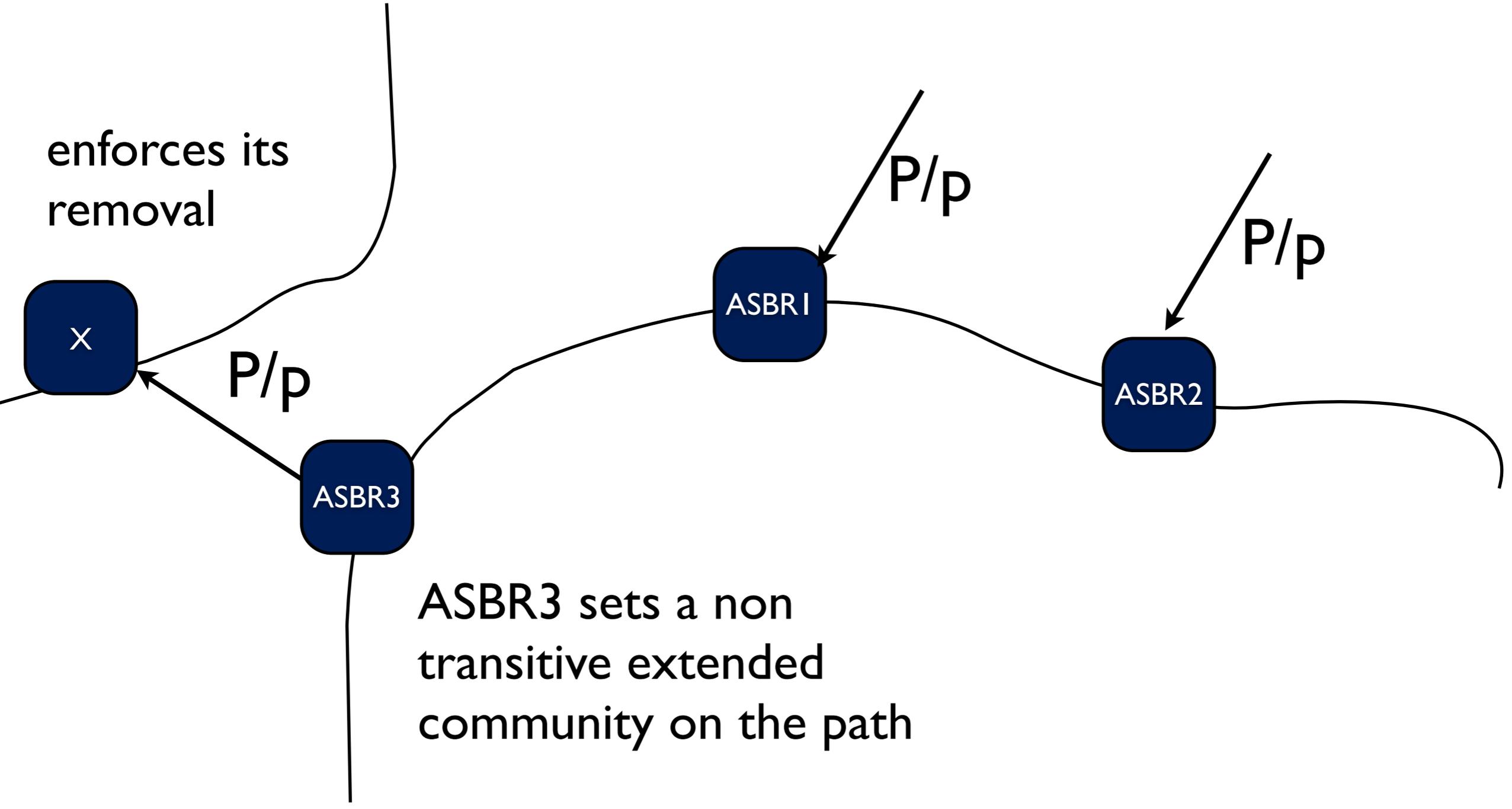
- “eBGP peers are not supposed to propagate them to me, so I strip them off from the received routes”

# What does that mean ?



...

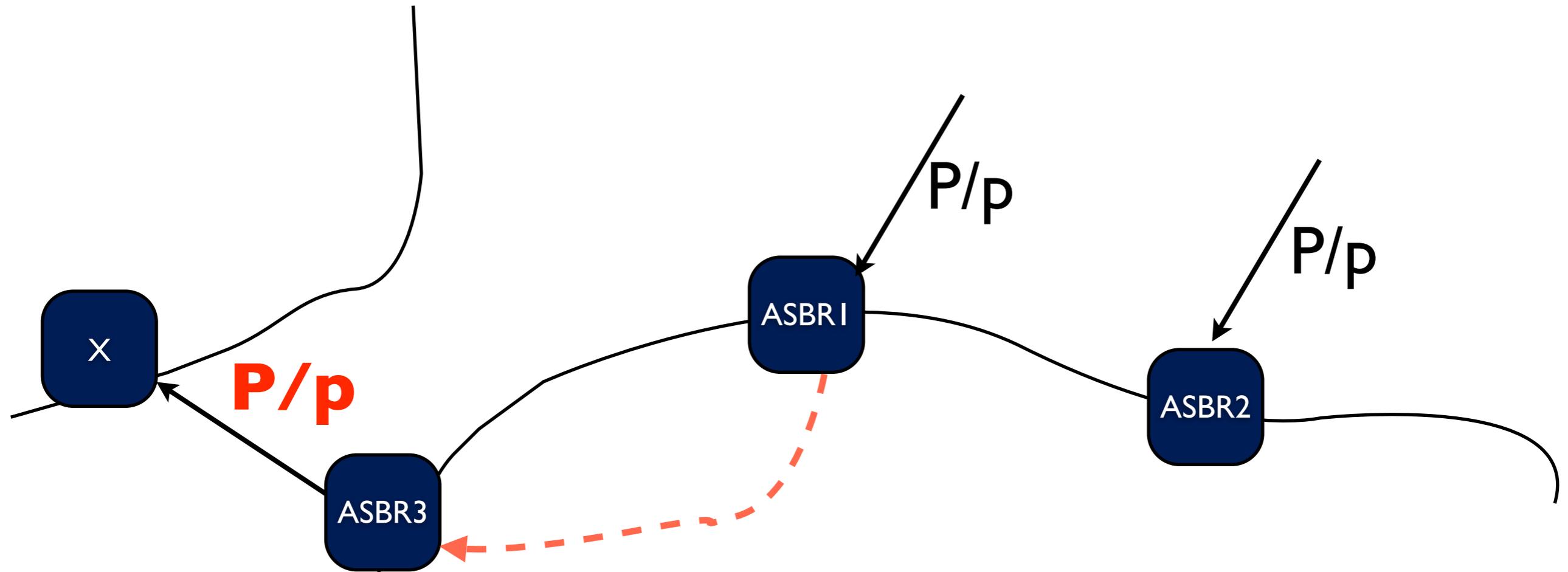
enforces its removal



ASBR3 sets a non transitive extended community on the path

- “eBGP peers are not supposed to **propagate** them to me, so I strip them off”
- adding such communities in the outbound filter of the sender “does not work”

# Observed Behavior II



I should remove non transitive extended communities from the path, **but I don't**

# This is bad

- Looks like we're not in synch
- Non transitive extended communities unusable across AS boundaries

# Clarification B

- **SHOULD NOT** enforce removal on reception over eBGP
- **MAY** be configurable ?

# Clarification A

- All routes **received** carrying an extended communities attribute containing a non-transitive community **SHOULD** have this(these) non-transitive community(ies) removed before advertising the route to another Autonomous System
- (in line with `NO_EXPORT` in RFC 1997)
- **SHOULD NOT** remove the ones added by its outbound filter
- **MAY** allow a config to disable this behavior

# Use case

# BGP G-Shut

- draft-ietf-grow-bgp-gshut-01
  - FFFF0000 + configuration burden
- Would be simpler with a non-transitive extended community, provided that it
  - can be used over eBGP
  - is really non transitive

# Next

- Do we agree on the suggested clarification ?
- How do we proceed ?