

draft-ietf-rtgwg-lfa-manageability-03

S. Litkowski, Orange

B. Decraene, Orange

K. Raza, Cisco

C. Filsfils, Cisco

M. Horneffer, DT

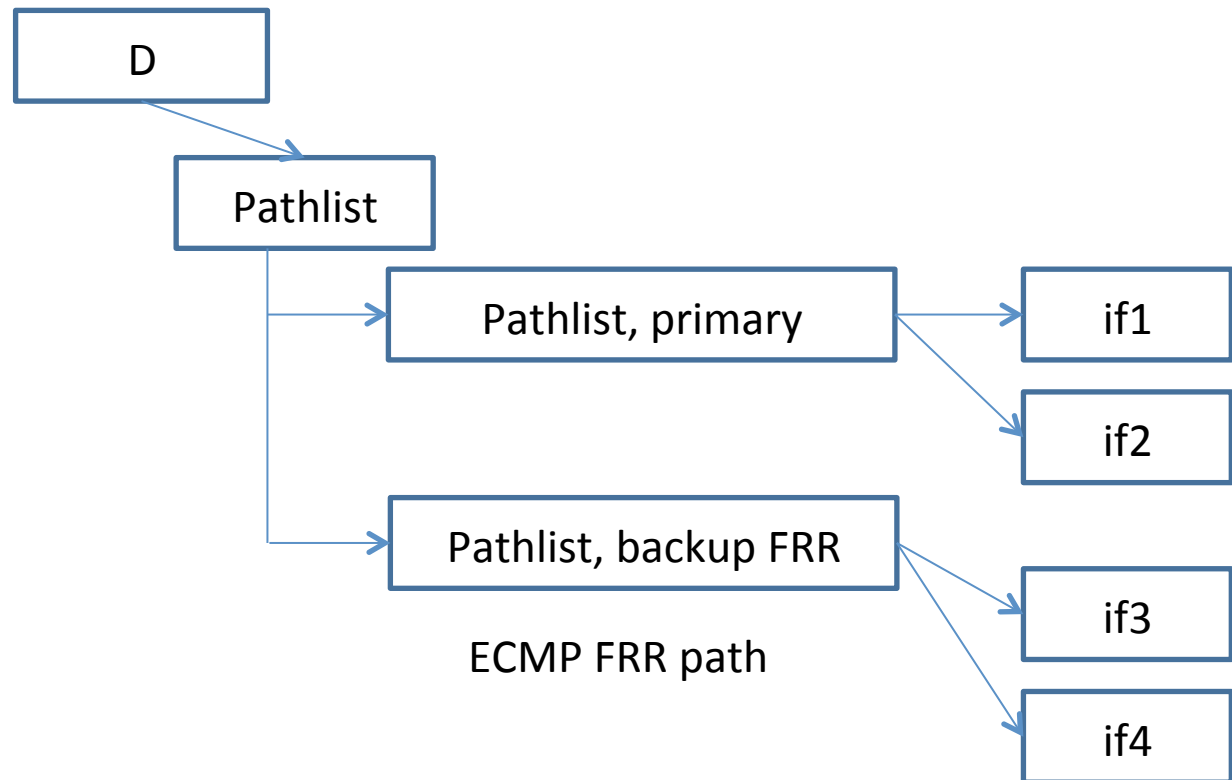
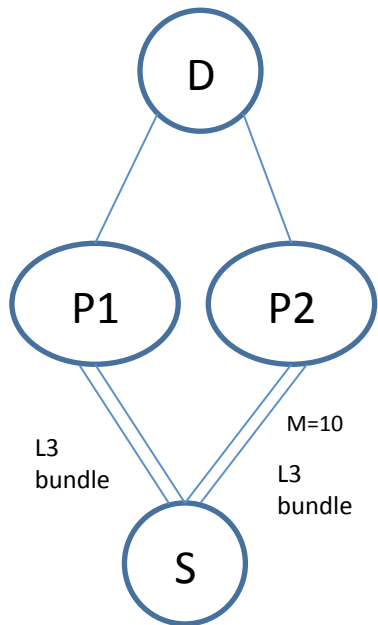
P. Sarkar, Juniper

Reminder

- Goal : Addressing management aspects of Loop Free Alternates
- Policy based LFA selection :
 - Applicable to both LFA & rLFA
 - Tie-breakers for selecting the LFA are not flexible enough to accommodate for all cases.
 - Calling for a policy based LFA selection, controlled by the SP according to local constraints
 - Based on multiple criterions with a default but customized relative order of preference.
 - Applied per protected interface or set of destinations.
- Some operational aspects

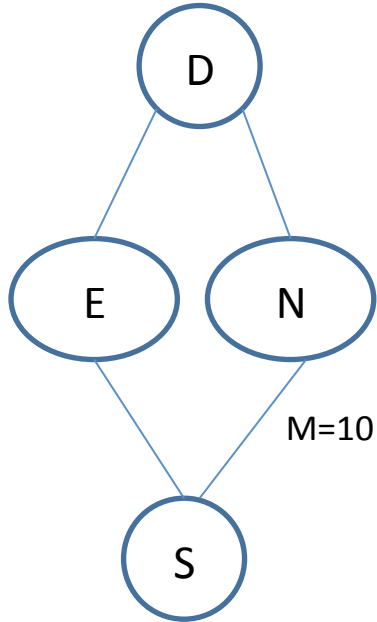
Diffs between -01 & -03

- Adding ECMP LFA case (loadsharing between LFAs) :



Diffs between -01 & -03

- Alternate path attributes retrieval :
 - connected alternate => no need of extra computation

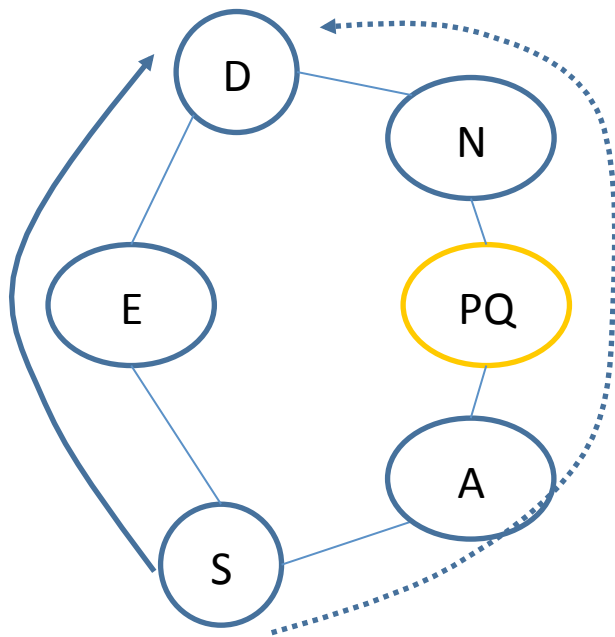


S->N attributes retrieved from SPT(S)

N->D attributes retrieved from SPT(N), already computed by LFA computation

Diffs between -01 & -03

- Alternate path attributes retrieval :
 - remote alternate => extra computation required



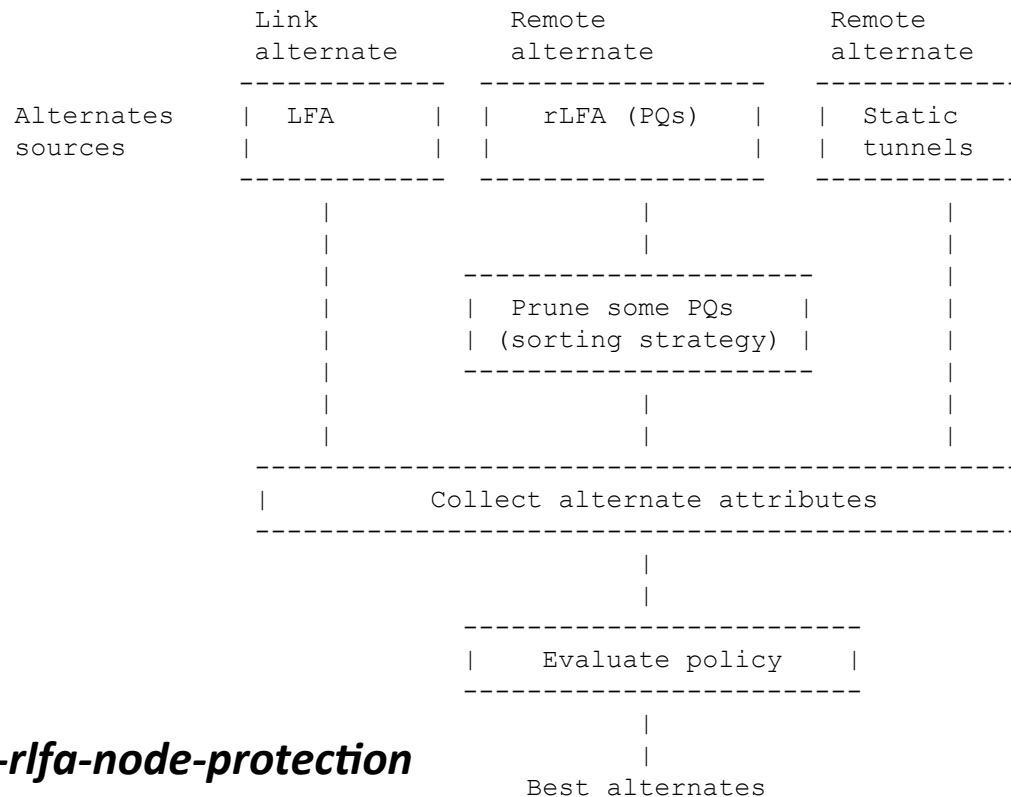
S->PQ attributes retrieved from SPT(S)

PQ->D attributes requires SPT rooted at PQ

Number of PQ candidates may be very high !!!

Diffs between -01 & -03

- Alternate path attributes retrieval :
 - remote alternate => prune some PQs !



See draft-psarkar-rtgwg-rlfa-node-protection

Diffs between -01 & -03

- Added some use cases :
 - why coverage information is required
- Fixing some text in criterion detailed info to fit WG comments

Implementations

- Three vendor known implementations :
 - Two successfully evaluated in Service Provider lab

Next steps ?

- We took into account all WG comments
- Document is stable
 - Is there any other point to take into account ?
 - Is there some blocking points ?
- WGLC ?