

# LFA Manageability

## draft-litkowski-rtgwg-lfa-manageability-01

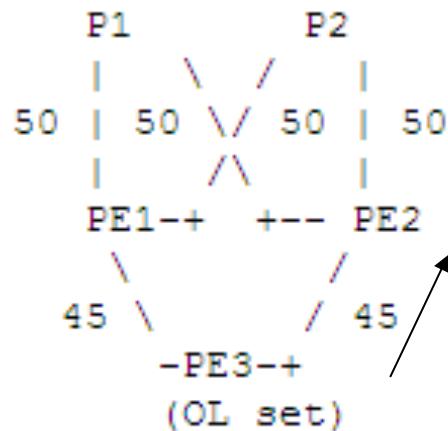
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## Content of the document (reminder)

- Policy based LFA selection (§3.2) :
  - 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.
- Operational aspects :
  - Providing coverage informations
  - Manual shutdown of a link
  - ISIS Overload bit management (NEW)

## What's new in V1 ?

- Added issue with ISIS OL bit management :



- We consider traffic from PE3 to PE2
- PE1 does NOT satisfy Equation 1 :  $100 <! 45 + 45$
- **BUT** PE1 should be considered as LFA because it cannot use PE3 as transit thanks to overload bit

OL permanently set on PE3 to enforce routing policy

Overload bit status of computing node **SHOULD** be taken into account while performing LFA computation

## What has been changed in V1 ?

- We took into account all the comments, mainly :
- Reduced set of new criterions, focus on :
  - Link coloring
  - Bandwidth
  - Neighbor preference
  - Remote and direct neighbors evaluated at the same level
- Removed LFA SPF computation throttling

## Next steps

- One existing implementation, two others are in the pipe
- Next points to be discussed
  - Signalling of information : mainly link colors, bandwidth
    - Benefit of signalling ?
    - Reuse existing TE extensions or define new ones ?
  - Simulation tool needs to know the LFA selection algorithm :
    - For LFA coverage and capacity planning
    - Default implementation policy/algorithm need to be documented
    - Thanks to Martin Horneffer (DT)
- Sollicit WG adoption

thank you