

# LFA Manageability

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

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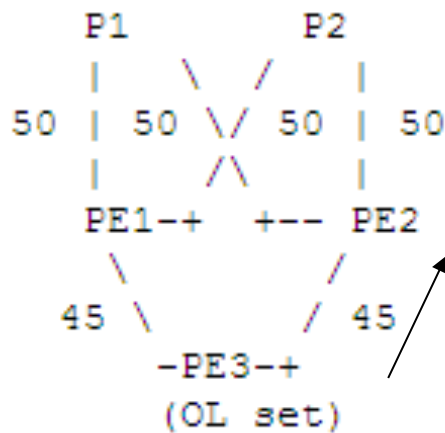
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## Content of the document (reminder)

- 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 criteria 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 :



OL permanently set on PE3 to enforce routing policy

- 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

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)
- Solicit WG adoption

thank you