# Some Notes on draft-ietf-rtgwg-segment-routing-ti-lfa

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# draft-ietf-rtgwg-segment-routing-ti-lfa

- draft-ietf-rtgwg-segment-routing-ti-lfa underwent a series of area reviews prior to being sent to the IESG.

- Gyan Mishra's OPS review pointed out that it was unsafe to deploy TiLFA without a uloop convergence also being deployed.

- A couple of trivial pathological topologies were noted in the review and subsequent discussion on the RTGWG list.

- Observation of deployed networks noted that uloops do form unless a uloop strategy is deployed.

# draft-bashandy-rtgwg-segment-routing-uloop

- This is the companion uloop draft
- It has not progressed and arguably is not well developed.
- It needs review and development with an operational focus
- There is a strong case that this draft (or another approach) needs to be incorporated in or co-published with draft-ietf-rtgwg-segment-routing-ti-lfa

# Is Ti-LFA solution Over Constrained?

- Given that we have  emerging evidence that Ti-LFA is operationally unsafe without a uloop strategy
- … And noting that the post-convergence – repair path congruence constraint was to avoid uloops
- … And noting that ingress packets may not reach the PLR post convergence
- We have to ask whether the post convergence path constraint is REQUIRED or should be OPTIONAL
- Note that removing the constraint would not result in incompatibility with deployed draft-ietf-rtgwg-segment-routing-ti-lfa
- Note that choosing another uloop strategy would likely not be incompatible with pre-standard draft-bashandy-rtgwg-segment-routing-uloop implementations

# The Way Forward

- After years of almost silence, there has recently been considered discussion of the TiLFA work on the RTGWG list.

- I believe that the chairs are considering the best way to move the work forward.

- I would suggest that it needs a virtual interim meeting to focus on the issues.