

# RSVP Graceful Setup

draft-beeram-ccamp-rsvp-graceful-setup-00

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# Motivation

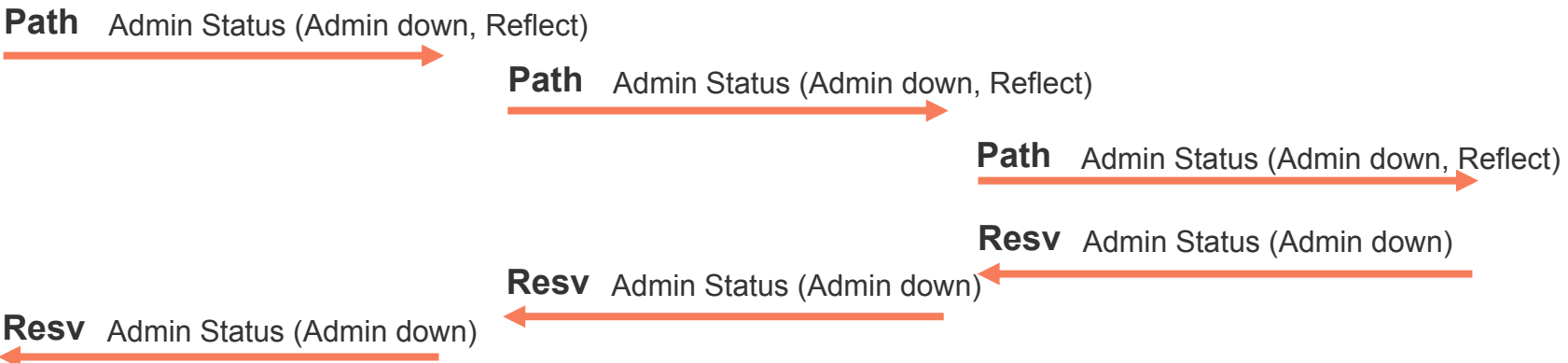
- GMPLS RSVP-TE setup procedure outlined for transport LSPs in [RFC3473] involves a single iteration signaling sequence.
- However there are certain scenarios, where it is not feasible to make an LSP fully operational and ready for use via the existing single-step setup procedure.
  - Need a setup procedure by the end of which, the endpoints are guaranteed that the LSP is operational and ready for immediate use.
- Draft proposes the use of a 2-iteration setup procedure for catering to those use-cases.

# Graceful Setup Procedure



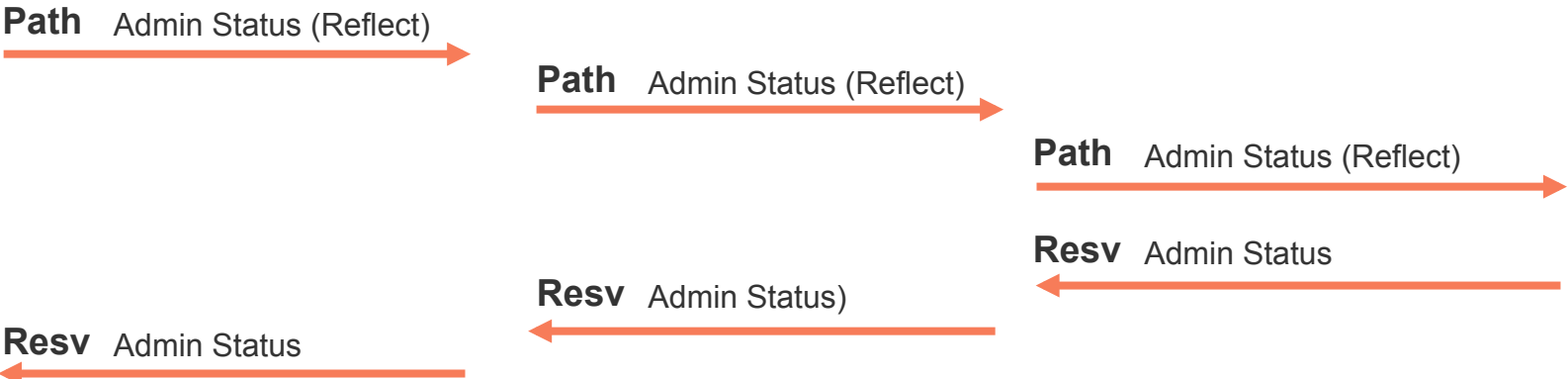
## 1. Prepare the resources along the path of the LSP

STEP 1



## 2. Make the LSP operational

STEP 2



# Use-Case: Lambda LSP Setup

- After all the cross-connects are setup in both directions at each node along the path of the LSP and the lasers are turned on at both ends, the Lambda LSP may still not be ready for immediate use.
  - Certain provisioning operations would still need to be performed at each node along the path of the LSP before it is deemed operational.
- By adopting the Graceful Setup Procedure for Lambda LSPs –
  - The cross-connects can be set up in the first step
  - Operations like “enabling alarm monitoring” and “equalizing power-levels” can get executed in the second step.

# Next Steps

- Initiate discussion.
  - Question – If there can be a “Graceful Tear-Down” procedure, why can’t there be a “Graceful Setup” procedure?