## cisco

# Root initiated routing state in RPL

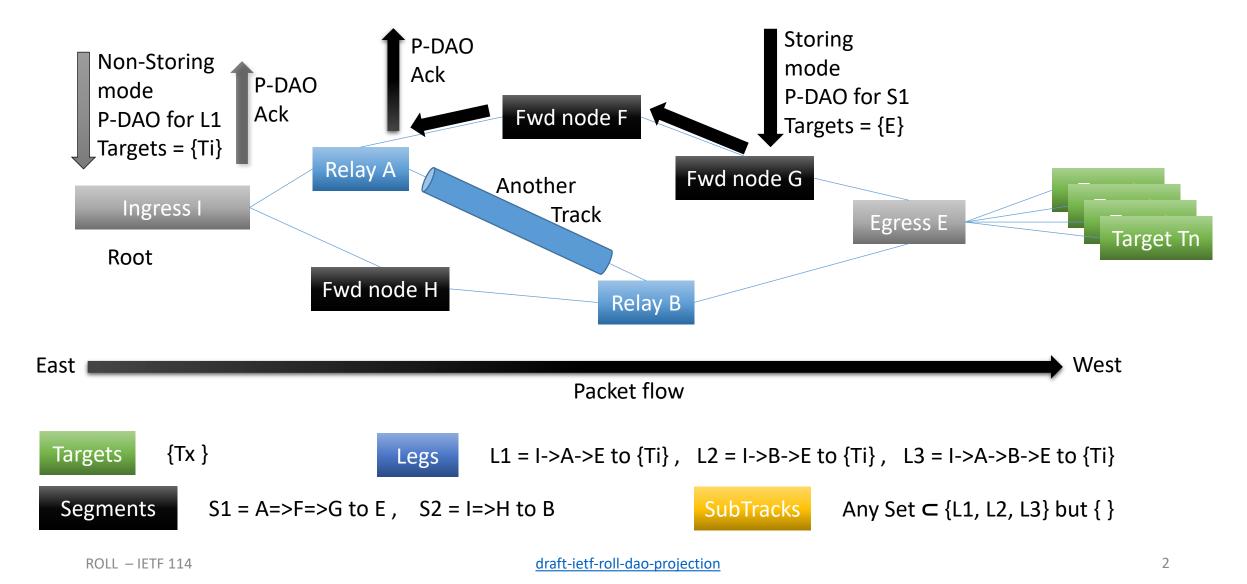
draft-ietf-roll-dao-projection

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IETF 114

Presenter: Pascal Thubert, remote.

#### The RPL Track: A DODAG rooted at Ingress



### Status of the draft

- -> 23: Li's review, first round with questions left opened Clarifications
  - Introducing P-DAO ACK

Introducing the bidirectional flag in Sibling Info Option (SIO)

-> 24: More of Li's review, treated as GitHub issues

Allows more than one target options, will reach  $1^{st}$  + undefined subset. Use of the bidirectional flag in Sibling Info Option (SIO) / what if dup Michael's edits on Amends and Extends. Michael becomes co-author

-> 25: Rephrasing terminology on Legs and SubTracks Legs are loose hop sequences from Track Ingress to Egress SubTracks (of a Track) are collections of Legs of the Track ROLL – IETF 114

### Status of the draft (cont.)

-> 26 Remous-Aris' review, intense but mostly cleanup

- -> 27 Dominique's review
  - Lacking text about SIO in RPL multicast DAO
  - Used to discover relaying neighbor for 2-hops P2P
  - Also this AMENDS RFC 6550 section 9.10
  - 2-hops via a common Sibling is loop less
  - A Cisco related IPR to be declared

#### Status of the draft (cont.)

-> 27 Dominique's review: discussion on Loop avoidance

- Need a strict precedence (A uses B => B cannot use A)
- Missing clear order of both <u>precedence</u> and <u>preference</u>
- Proposed when forwarding along a Track : direct 1 hop > Via common neighbor > Segment > Track > drop
- Note: fwd along Segment is only direct 1 hop Allows Via common neighbor? would respect the precedence



• Publication request?