The Finite State Machine for 802.17 Topology

Kshitij Kumar
kkumar@lanterncom.com

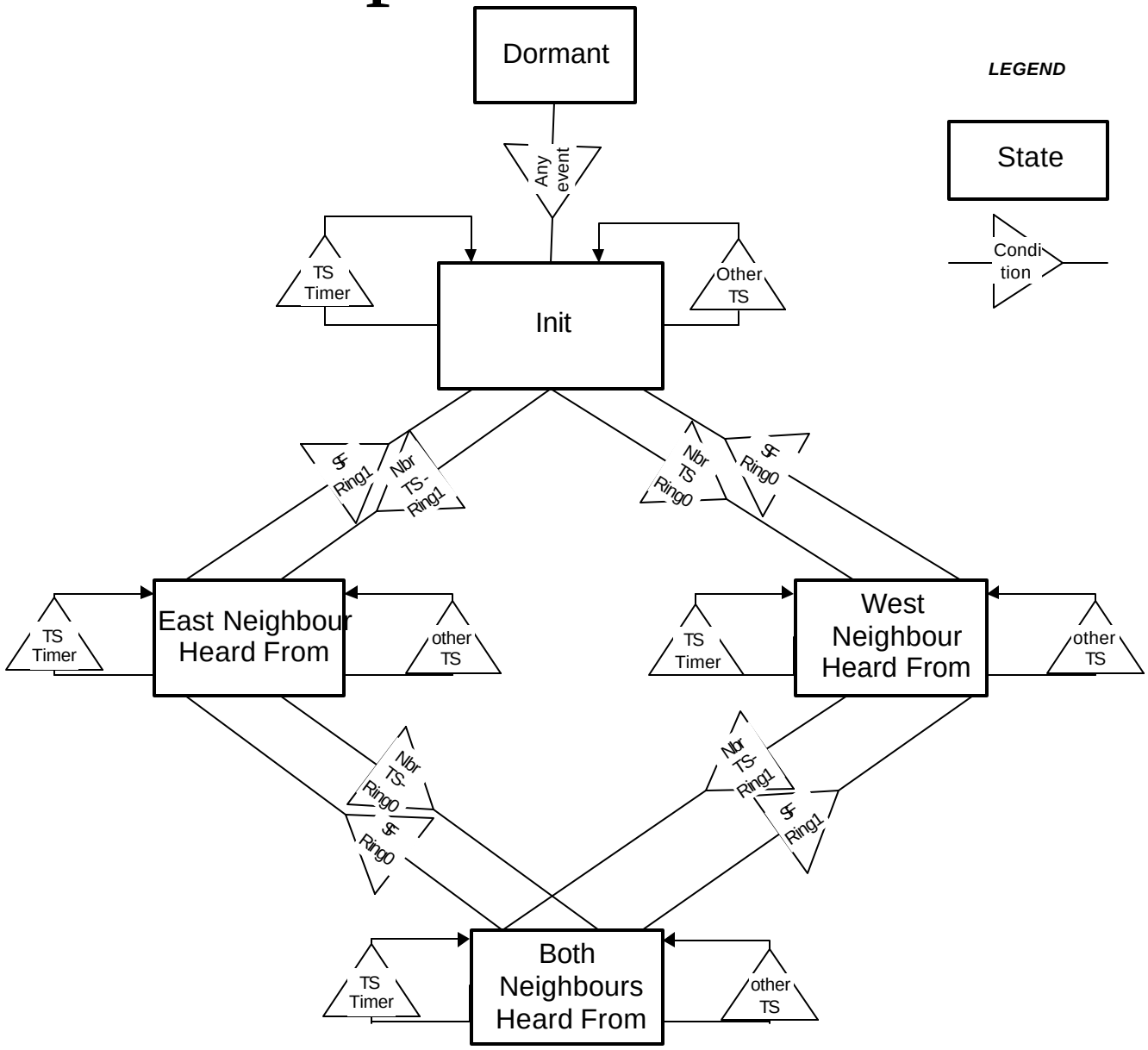
Why create a Topology FSM?

- Motivation
  - To have a Deterministic, Finite set of states, conditions and actions to define the Topology algorithm for 802.17
- Contents of this presentation:
  - A Deterministic yet simple Finite State Machine
  - Covers the behaviour of the Topology component of 802.17
  - An output of the PAH

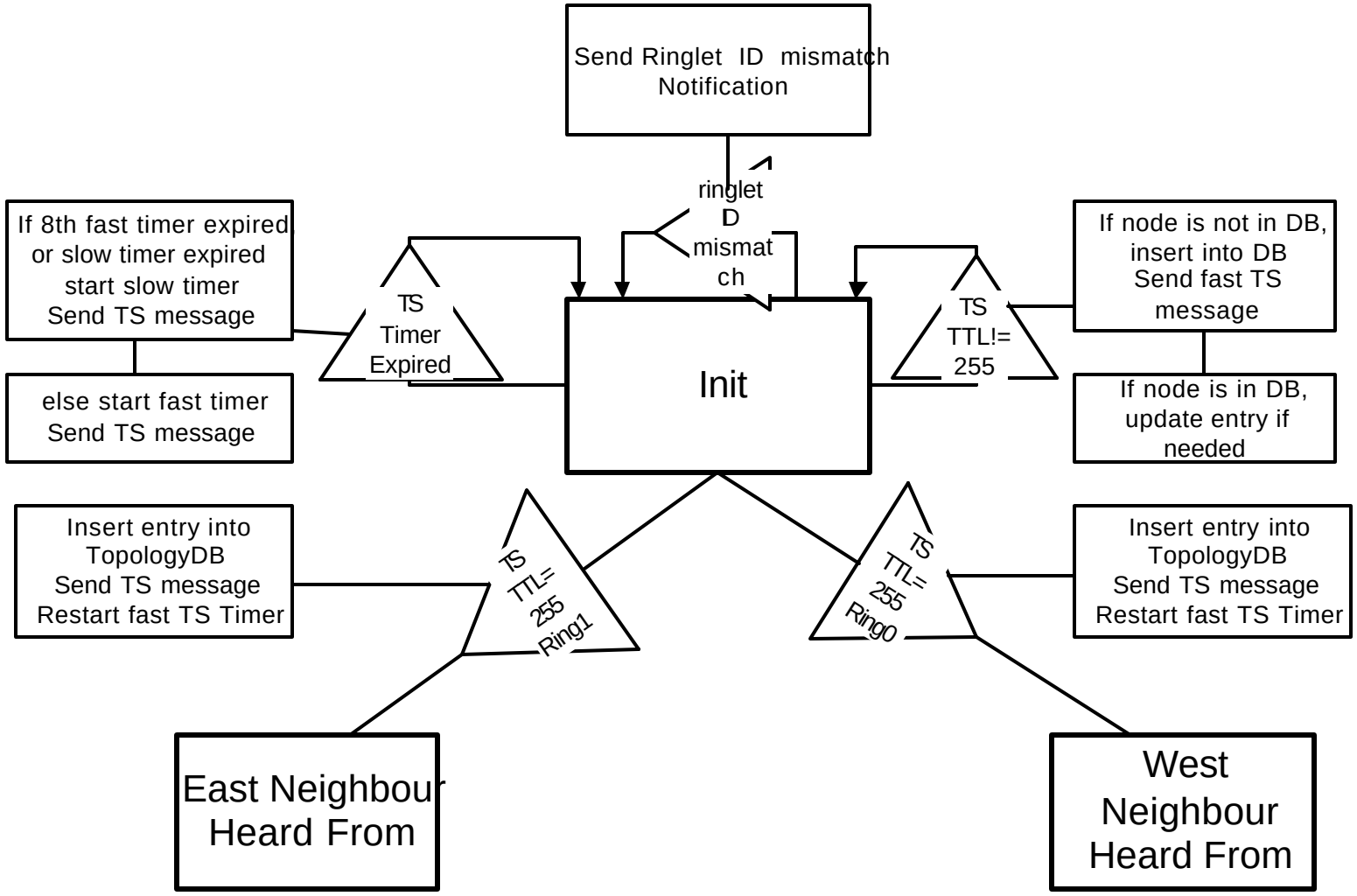
The Topology States

- Five simple states
  - Dormant (before system has started up)
  - Init
  - West Neighbour Heard From
  - East Neighbour Heard From
  - Both Neighbours Heard From (fully connected)

Simplified FSM



The INIT state



Summary

- An FSM is now available for Topology
  - Complete, gory details are in the revised Clause 10.
- Defines some interfaces:
  - With Protection
  - With OAM
- This is work-in-progress
  - Will be refined further
  - More details added as needed