Faster hello in DRNI

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Agenda

- Use case and requirement
- Proposal
Use case and requirement

• Use case 1: Mobile backhaul
  - In LTE mobile backhaul, one optional solution is deploying routers and layer 2 network (PTN). For the interconnection between routers and PTN, DRNI is an appropriate mechanism.
  - For Mobile backhaul, fast convergence is a basic requirement. In the best case convergence time should be less than 200ms, in the worst case it should be less than 500ms.

• Use case 2: Layer 2 network in cloud computation IDC
  - In cloud computation IDC, we use layer 2 network to meet the requirement of cloud computation. We want to use DRNI instead of spanning tree (Of course, SPB or Trill are also optional)
  - In this case, convergence time should be less than 500ms

DRNI is very useful in our network deployment and we require fast convergence in DRNI.
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Proposal

• In subclause 5.4.4 of current version of DRNI, Fast_Periodic_Time is equal to 1 second, which cannot meet the requirement of fast convergence.

• We propose to define new timer for faster convergence:
  - Rapid_Period_Time: 100 ms (It's the minimum interval for slow protocol)
  - Rapid_Timeout_Time: 300 ms
  - Implementation tolerance: ± 25 ms
Thank you

Q&A