

Faster hello in DRNI

802.1 AXbq, 201111 IEEE 802 plenary

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Agenda

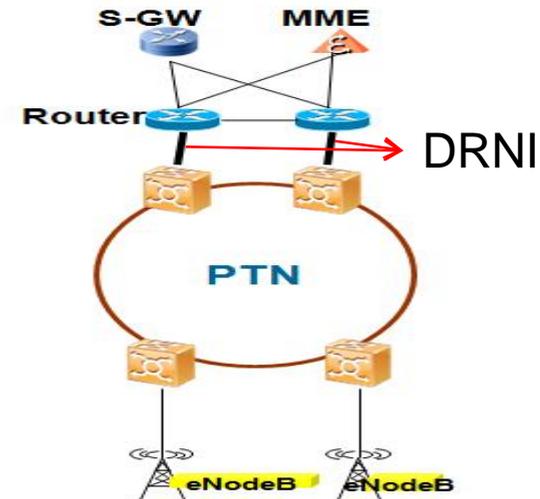
n Use case and requirement

n Proposal

Use case and requirement

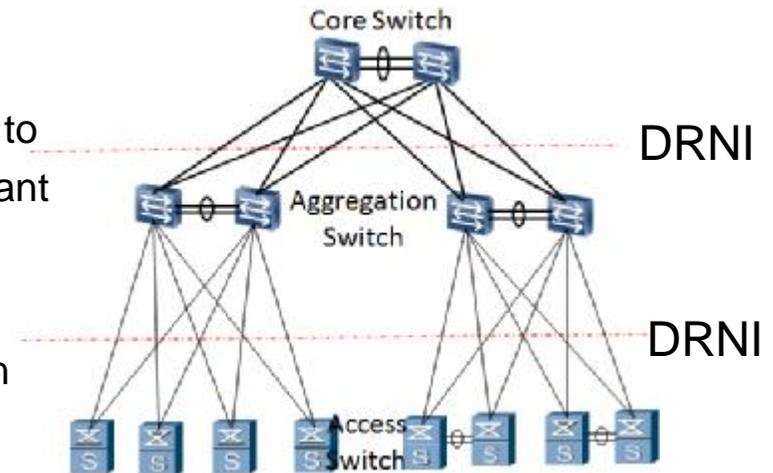
- **Use case 1: Mobile backhaul**

- 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 can not 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: \pm 25 ms

Thank you

Q&A