

TDD and FDD

Path forward

Contributors and Supporters

(alphabetic order)

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Summary

- Plenty of discussion on TDD and FDD so far
- Contributions so far are:
 - Subjective in presenting strengths and weaknesses of both solutions
 - Use different architecture assumptions (apples and oranges comparison)
- This prevents the group from taking an educated decision on how to proceed with the selection of the operating mode (and if at all)

Proposal

- Establish a network scenario for comparison purposes to gauge technical proposal against
- Current contributors bring their **contributions** for the next meeting with:
 - performance figures against this scenario (minimum, average and maximum packet delay; jitter; packet loss; excess capacity, etc.)
 - list of assumptions made to arrive at the performance figures

Target network scenario (I)

- 40 CNU in the network connected to a CLT operating at the data rate of up to 1 Gbps symmetric
- No ONUs in the network (to avoid unnecessary complexity and discussion on OCU is and what it does), no OCU, no OLT – consider a coax-only distribution network scenario
- Each CNU runs a CBR 25 Mbps service
- Queues on each CNU are always loaded at the rate 25 Mbps

Target network scenario (II)

- 300 MHz of spectrum available (contiguous block) between 1 GHz and 1.3 GHz
- Node+0 scenario (passive plant)
- 1000 feet maximum reach (max distance to CNU)
- For simplicity, assume this spectrum is completely free and available for EPoC use