
Wavelength plan proposal - Activity report -

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July meeting summary and action items

Downstream

(Proposal)

- The only feasible band is 6 nm wide centered 1577 nm : 1574 nm ~ 1580 nm.
(3av_0705_tanaka_1.pdf, 3av_0705_otaka_1.pdf, and 3av_0705_tsuji_1.pdf)

(Discussion)

- More cheaper solutions are necessary such as 20 nm wide at 1490 nm.

(Action item)

- By continuing the above discussion, we decide downstream wavelength plan.

Upstream

(Motions)

- #3: 10Gbps upstream signal to have a pass band of 20nm. => passes
- #4: 10Gbps upstream signal shall be centered around either 1270 nm or 1350 nm.
=> postponed until further study is presented (#4a).

(Discussion)

- Further study is necessary to select either 1270 nm or 1350 nm.

(Action item)

- By studying several aspects, we decide upstream wavelength plan.

Activity report

Downstream

(Conclusion)

- We studied the wavelength plan mainly from system vendor's viewpoints and concluded that 6 nm wide centered 1577 nm : 1574 nm ~ 1580 nm is the best solution for all the PMD classes.
- The details are described in 3av_0707_uematsu_1.pdf.

Upstream

(Conclusion)

- We studied the impairments associated with the wavelength, and concluded 10Gbps upstream signal should be around 1270 nm because of its higher dispersion tolerance.
- The details are described in 3av_0707_uematsu_2.pdf.