

Operation of existing 40G serial at 1310 nm

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Operating wavelength choice

One of the key decisions that the Task Force must make is what transmitter wavelength range to use. This was pointed out on slide 8 of [anslow_02_0110.pdf](#) in the New Orleans Study Group meeting.

“Consequently, the Task Force will need to debate whether operating at 1310 nm provides sufficient compatibility with the installed base”

In order to try to answer the question of how many of the installed interfaces will operate satisfactorily with a 1310 nm input, a confidential survey was undertaken among those module vendors known to have shipped devices.

Result

The calculation used was:

$$\frac{\text{No. known to operate at 1310nm} + \text{No. that might operate} * \text{Probability}}{\text{Total number}}$$

The individual responses to this remain confidential, but the aggregate result from those that responded is that:

- An estimate of the percentage of installed OTU3/STM-256/OC-768/40G POS interfaces which will operate satisfactorily with a 1310 nm input is 75%

Thanks!