

# Co-ordination of PON timing issues

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# List of Contributors

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# Introduction

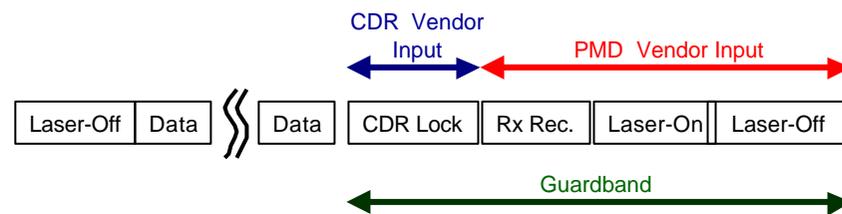
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Want to combine inputs from several vendors for PMD on/off times in attempt to reach decision on PON timing

# Information/Survey Distributed to PMD Vendors

Input Parameters		
Number of Splits	32	
Access Cycle	1 msec	
CDR Locking Time	600 nsec	
Tx on time	0 nsec	
Tx off time	0 nsec	
Rx recovery time	0 nsec	
Guardband	600 nsec	
Utilization	98,08	%

$$\text{Utilization} = 1 - \left[ \frac{\text{Guardband} * \text{Nonu}}{\text{AccessCycle}} \right]$$



## Feedback from Vendors

CDR lock time of 600 nsec and TD of 1 msec and 1:32 split

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	Proposed Values		
Name	Laser on/off (nsec)	Receiver Recovery (nsec)	Efficiency (%)
effenberger_optics_1_0702.pdf	16	50	99,74
Vendor #1	16	-	
Vendor #2	3	50	99,82
Vendor #3	13	77	99,67
Vendor #4	13	55	99,74
Vendor #5	13	35	99,80
Vendor #6	16	55	99,72
Vendor #7	20	35	99,76
Slow Times'	3000	1000	77,60