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Case	Optical spectrum usage	Number of optical transceivers	Node processing load	Others
1	Very high	10	Very high	Poor survivability
2	Very high	10	High	-
3	Lowest	10	Medium	High DCS
4	Medium	20	Very low	-
5	Low	5	Very low	Rapid tunability required, optical multi-cast possible
Case 1 - S	Stand-alone ATM	star		
		bi-directional ring		
	ATM embedded in ATM embedded			
	ATM embedded			
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