

59. DYNAMIC TRAFFIC GROOMING IN P2-CYCLE

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The Failure Independent Path Protection (FIPP) p cycle is efficient scheme. If failure occurs in pre configured cycle it is protection is reconfigured between those two nodes. In this paper we use Parasitic Protection Links (PPL). PPL's are p-cycles with have attached links. PPL's are used to protect the not only failure nodes but it connected to PPL to cycle. P2 cycle is known as p cycle with parasitic protection links. We address The P2- cycle in mesh networks can be analysed by using single link failure. We further propose two P2-cycle based heuristic algorithms, Strict Routing Protection (SRP) and Flexible Routing Protection (FRP), to address the dynamic traffic case. In the dynamic case, both SRP and FRP outperform FIPP p-cycle schemes in terms of blocking probability in most scenarios considered. In general, the P2-cycle protection scheme outperforms the p-cycle based in terms of capacity efficiencies which being slightly slower in terms of traffic recovery speed.

Key words: Parasitic Protection Links (PPL), Strict Routing Protection (SRP) and Flexible Routing Protection (FRP).

Journal of Science and Innovative Engineering & Technology