Performance Evaluation of Resilience using Service Relocation for GMPLS Networks

Cloud computing today represents an ever increasing part of the data exchanged over the Internet. This influences the core network, where the special properties of cloud based services can be leveraged to increase the network efficiency. This paper explores the concept of relocation for the backup path when providing resiliency to cloud services in the network. The control plane of a GMPLS enabled optical network is simulated, thus evaluating the proposed Path Computation Element architecture for service relocation. The results show that for increased offered traffic in the network, the overall blocking probability of service requests is lower if relocation is enabled in the protection scheme.

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