Objectives/Background

- Managed Dynamic VPN (MDVS) service provides a framework that enables a service provider to offer more demanding and revenue generating services.
- While realizing MDVS, the service provider provides VPN clients the abstraction of the core network considering the confidentiality and revenue generated. The following questions arise:
  - What is the abstract topology to be used?
  - How to generate the abstract topology?
  - How to satisfy the demands without sacrificing revenue?

Preliminary Results

- A framework to enable managed dynamic VPN service using the topology abstraction is proposed in [1].
- Several distributed heuristics that can be applied in the context of [1] are proposed in [2].
- The problem of enabling dynamic managed service using topology abstraction to maximize the network utilization and VPN call performance in a centralized manner is studied in [3].
- The algorithms applicable to generate topology abstraction for the VPNs is dealt in [4].

Relevant References