**Impact**

Minimize dependence on engineered network configuration data

Avoid intricate case-by-case analysis of failure/fallback/recovery scenarios

Provide automatic reconfiguration in case of network reconfiguration or failure

**New ideas**

Dynamic peer discovery using intelligent multicast algorithms

Self-organizing, multiple server topology for redundancy and diversity

Automatic repair and restoral using adaptive, constrained-metric heuristics

Automatic stratum assignment

**Schedule (third year)**

Implement and test asynchronous certificate retrieval for dynamic re-keying

Implement expanding-ring, hop-limited, manycast algorithms

Enhance and add new protocols to the network simulator for very large networks

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