Transport operator in Europe

Project Goals

To assess the robustness of the IP backbone network by simulating network element failures

NETWORKS Approach

- Automated import of customer's IP backbone networks and the used VPLS network
- Macro controlled single failure analysis of single link or network element
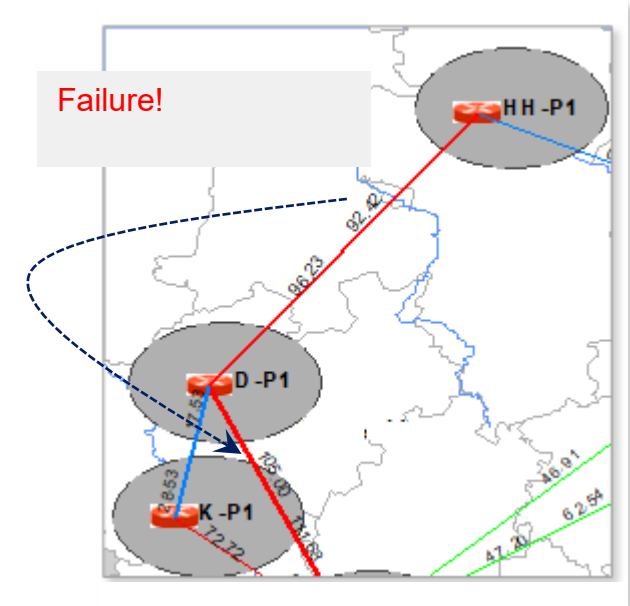- Failure analysis in case of defined multiple failures

Client Benefits

- Detailed knowledge about transport network's capabilities in terms of redundancy and resilience
- Required capacity extensions (and related cost) to survive link and node failures
- Documentation of the network and their dependencies

Operational Excellence / Strategy

IP Core Robustness –
assuring maximum resilience in case of failures by simulation

Failure Simulation

- Escaping the limits of Excel by modeling meshed network with multi-path routing
- Holistic network-wide analysis assuring end-to-end connectivity
- Avoiding downtimes and loss of revenue
- Identification of capacity bottlenecks and related service degradation in failure scenarios for impact analysis
- Cost of improved service quality versus impact on service quality and revenue
- Limit connectivity losses caused by network disasters

Failure analysis snapshot