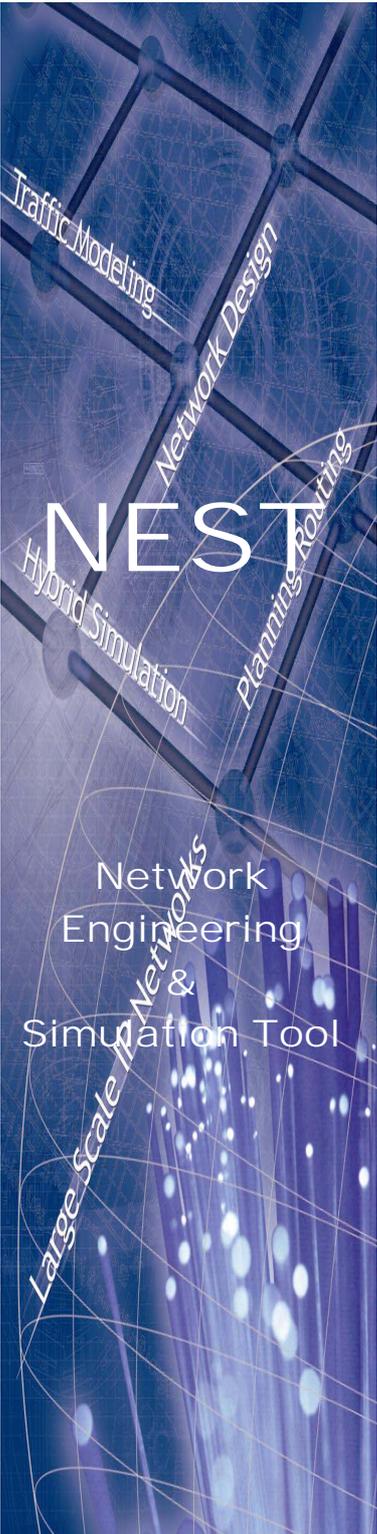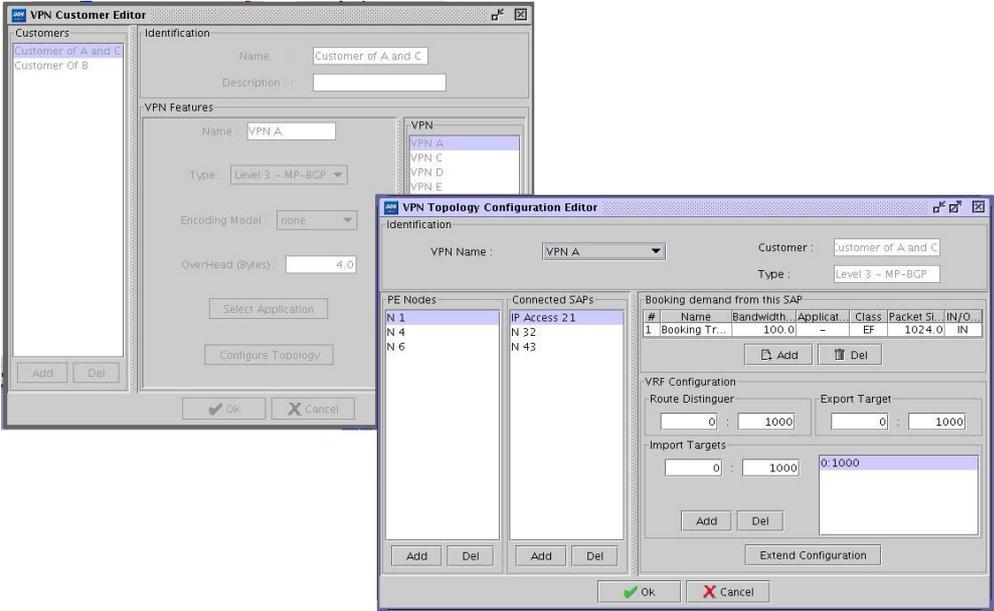# NEST

VPN

NEST VPN Plug-in

Overview

Network Engineering & Simulation Tool

NEST VPN & NEST IP-MPLS provide a unified framework to build complex L2 and L3 VPN topologies. Resource allocation and Traffic Engineering are optimized at IP and MPLS levels.

Advances in VPN Services coupled with MPLS traffic engineering capabilities is a major feature for providers. NEST VPN provides the ability to launch new products and services in a controlled fashion, whilst minimising the risk of compromising the end customer experience. In the resulting planning problem, NEST VPN will help in designing efficiently complex VPN topologies, guarantee quality of service and contribute to significant CAPEX and OPEX Savings.

> ➢ **NEST VPN** provides models for layer 2 or layer 3 VPN. For each layer, NEST VPN allows configuration of tunnels and/or multipoint to multipoint VPN.
> ➢ **NEST VPN ease** VPN configuration with a user-friendly interface

> ➢ **NEST VPN allows to create both IP and MPLS VPN**. LSP tunnels are automatically created and dimensioned in the case of MPLS VPN even for complex VPN topologies like MP-BGP based VPN.
> ➢ **NEST VPN analyzes the integration of new VPN services**. It details precisely the impact of a new "Client/VPN" service in your network.
> ➢ **NEST VPN optimize resource allocation**. In order to place as much VPN services as possible, NEST VPN optimizes VPN topology, via a "Hose model" approach.


Traffic Modeling

Network Design

Hybrid Simulation

Planning Routing

NEST

Large Scale Networks

Network Engineering & Simulation Tool

NEST VPN Plug-in

NEST VPN General Features.

➢ **NEST VPN** is made of two three major features: optimal engineering, easy configuration and interactive views. NEST VPN Proposes to size and/or optimize LSPs, for a booked traffic pattern associated to a VPN. Several graphical views of the VPN sub-graph, routes and traffic loads, load per VPN or per client on each link, size of LSP configured for VPN, are available.
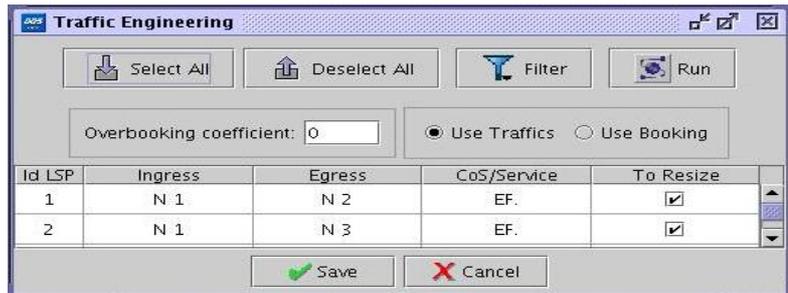
➢ **NEST VPN** simulates usual topologies like full-mesh, tree topologies, and specific configuration with MPBGP.
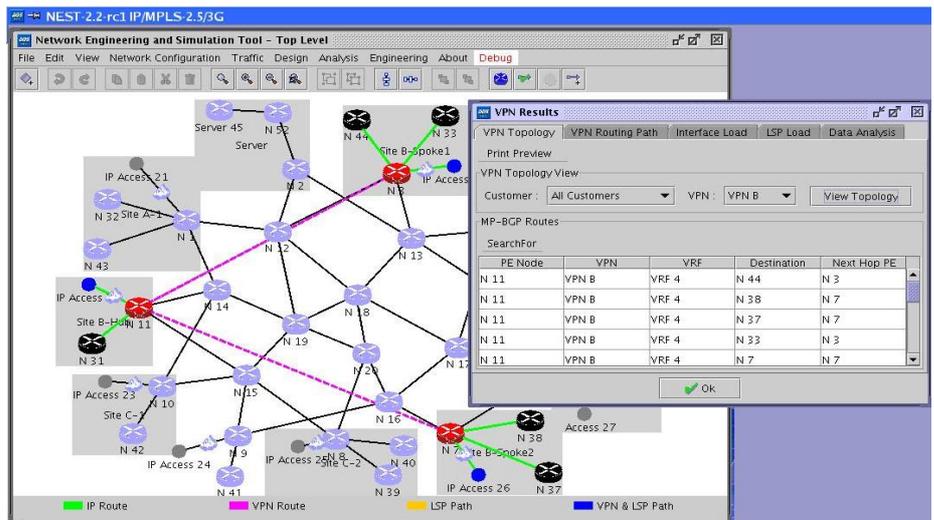
➢ **NEST VPN models accurately L2 & L3 VPN applications:**
  o VPLS: L2 VPN Services
  o EPIPE: layer 3 tunnelling
  o MPBGP: layer 3 VPN
  o Hub&Spoke: layer 3 VPN
➢ **NEST VPN** is RFC compliant and follows constructor recommendations to guarantee the same topologies obtained in real systems.

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