



NEST Mobile Plug-in



Overview

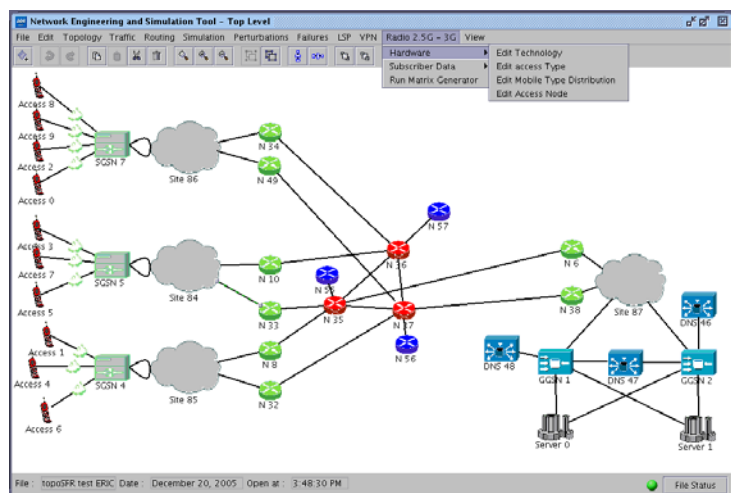
Network Engineering & Simulation Tool

NEST Mobile & NEST IP-MPLS provide a unified framework for wired-wireless networks. This plug-in will turn NEST IP-MPLS into a simulation and planning tool for 2.5/3G networks.



Advances in Next Generation Networks have raised significant challenges for Mobile Operators trying to accommodate emerging technologies whilst retaining the Quality of Experience (QoE) across a unified Network architecture. Key characteristics such as Heterogeneous traffics, fixed-mobile network architecture, QoS Control, Optimal resource utilization, Network resilience management, are addressed by NEST Mobile in a global simulation and planning approach.

- **NEST Mobile in conjunction with NEST IP-MPLS**, provides a global approach for the simulation and planning of 2.5/3G and IP-MPLS applications. It contributes to significant CAPEX and OPEX Savings, provides the ability to control the launching of new mobile services, whilst minimising the risk of compromising Quality of Service.



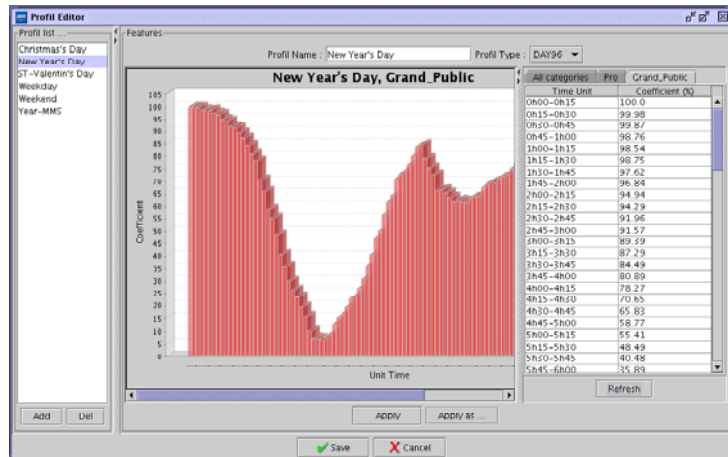
- **NEST Mobile will optimize your Traffic Engineering strategy**, taking into account MPLS resources, PDPcontext, GTP tunnels, DNS load-balancing ...
- **NEST Mobile models in detail SGSN and GGSN Gateways** with extensible models :
 - multiple queues with adjustable DiffServ QoS
 - Radio classes
 - access control
- **NEST Mobile supports Multivendor Gateway Models**

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NEST Mobile General Features.

- **NEST Mobile Traffic Matrix Generator** will automatically generate traffic flows for each type of mobile application within GPRS, EDGE, UMTS subscriber population.



- **NEST Mobile simulates heterogeneous traffics and packet streams** issued by all radio networks (GPRS, EDGE, UMTS) connected to a MPLS backbone. It takes into account Uplink and Downlink rates in relation with radio technologies, APNames, terminals, traffic classes ...
- **NEST Mobile is able to model accurately mobile applications :**
 - MMS, Push to talk, WAP, WEB, ...
 - Voice, Video, TV
 - User defined application models
- **NEST Mobile models service platforms**
- **NEST Mobile supports static/dynamic DNS policies**
- **NEST Mobile implements virtual access nodes** that aggregate the subscribers and handset terminals connected to a SGSN. Several geographical or administrative areas can be represented this way. Subscribers can be decomposed with as many access nodes as the user needs.
- **NEST Mobile implements virtual radio links.** Access nodes are connected to SGSN interface cards through virtual radio links.



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