



NEST Enterprise



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Network Engineering & Simulation Tool

QoS Design's NEST Enterprise coupled with NEST NGN suite provides a powerful integrated workbench for supervision & intelligent control of IP/MPLS Networks. NEST Enterprise relies on simulations in the loop and autonomic control algorithms powered by real-time measurements.



NEST Enterprise is a workbench that allows autonomic control of IP/MPLS networks. It provides the user with powerful tools for supervision, dynamic analysis (real-time) and intelligent control of networks.

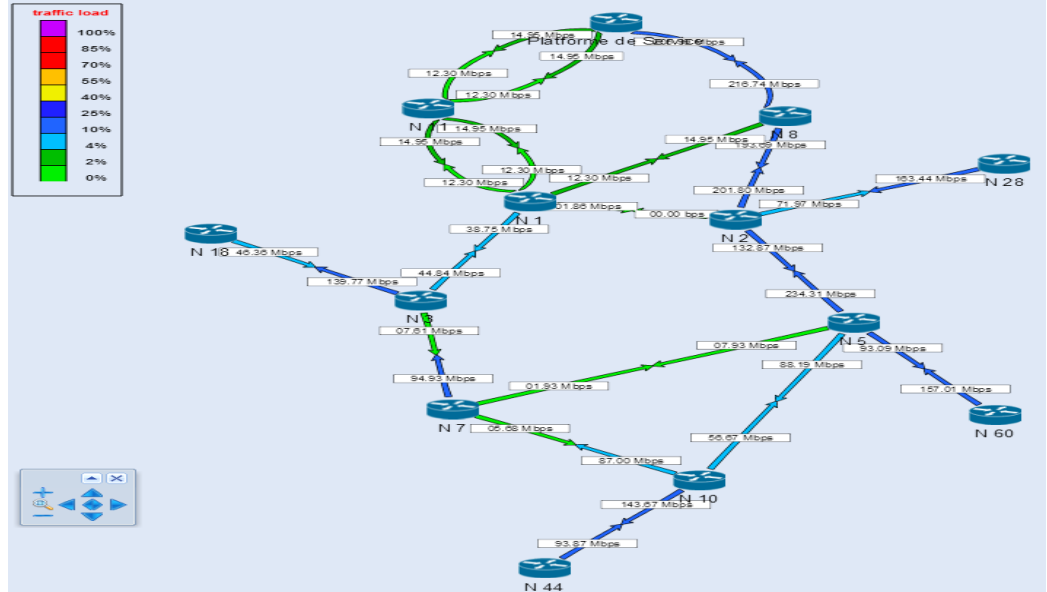
- **NEST Enterprise** provides network managers with powerful dashboards for a complete control over carrier grade infrastructures.
- **NEST Enterprise** provides more than traditional supervision functionalities by enabling the detection of QoS degradation causes.
- **NEST Enterprise** integrates a real-time simulation kernel that provides network performance analysis and QoS estimations.

Key Features of NEST Enterprise

- **Administration**
 - Based on a centralized global Data Base,
 - Several sub-manager profile can be defined to supervise sub-networks,
 - A Central-manager is able to manage sub-managers; it has specific dashboards for the entire network.
- **Discovery Engine**
 - Discovers IP devices (routers, switches, servers),
 - Discovers MPLS networks (LER, LSR, LSP, Tunnel, ...),
 - Discovers VPNs from Layer 2 and Layer 3.
- **Real Time Measurements**
 - Provides monitoring of mission-critical components,
 - End-To-End traffic measurements (SNMP, NetFlow,...),
 - Bandwidth threshold alarms on links/interfaces,
 - Device failure alarms & reporting.
- **Traffic Matrix Estimation and trending**
 - IP and MPLS Traffic matrix estimation,
 - Trending of both IP and MPLS traffic.
- **Simulation in the loop Kernel**
 - Simulation in real time for the entire network,
 - Real-time QoS estimation and analysis.
- **Global Network Controller**
 - Dynamic optimization and decision support algorithms,
 - Coupled with the simulation kernel, the algorithms allow intelligent control decisions for the global network.
- **Reporting Tool**
 - Produces accurate IT inventory reports,
 - Powerful dashboards providing access to real-time monitoring information and third-party data.

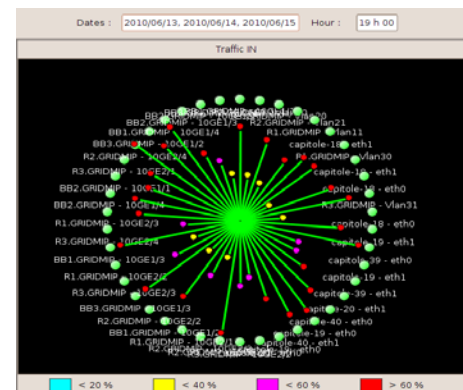
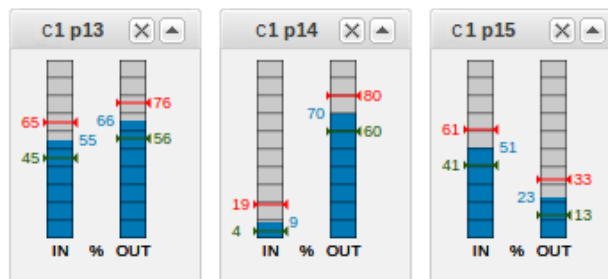
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NEST Enterprise Key benefits

- A graphical view of the entire IT operations network and business processes.
- Dynamic traffic matrix estimations for traffic engineering (using SNMP, Netflow measurements).
- Network Engineering of IP/MPLS networks,
- Top 10 talkers visualization.
- MPLS audit: visualization of LSP/Tunnel changes (paths, bandwidth, status,...).
- VPN audit: visualization of VPN changes (VRF, status, paths,...).
- Dynamic QoS estimations.
- Dynamic and real-time IP optimization of the network based on metric changes.
- Dynamic and real-time MPLS optimization (LSP placement).
- Resilience analysis and NEST NGN pre-calculated scenarios.
- MTTR improvement.
- Unified dashboards for NOC and SOC.

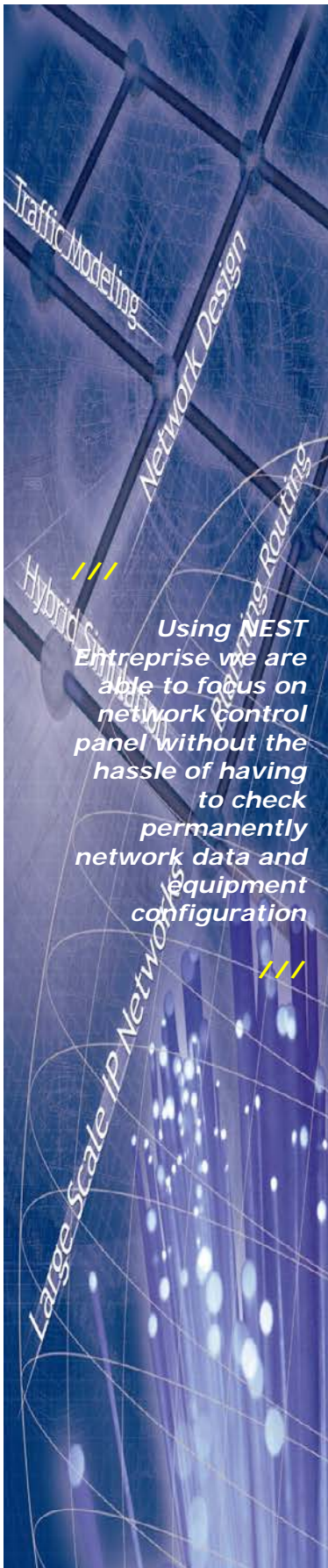


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Using NEST Enterprise we are able to focus on network control panel without the hassle of having to check permanently network data and equipment configuration