



NETx -Professional Transmission Planning & Provisioning Tool



Organization Profile
Transmission and
Transport Department
of a Mobile or Fixed
Provider.

Business Case
Need for a
Transmission Planning
& Provisioning Suite

Brief Description

NETx Professional is a planning & provisioning platform which can be used for network planning in different layers.

NETx planning tool can be used as the one and only traffic planning tool, replacing the MS Access and excel databases existing today, in order to document the routing of PDH, SDH and Ethernet network. It is actually a SW tool capable of supporting planning and documentation of telecommunication networks.

Our advanced portfolio of solutions helps the providers design, build, operate and manage current and future mobile networks. Our platform simplifies and speeds up network planning, optimization, provisioning and resource management by consolidating core, access, and backhaul network data into a common source of truth. With complete end-to-end visibility of the entire network operators are enabled to make faster, more cost-effective business decisions and provide better quality of experience to their subscribers.

The concept of NETx is based on sets of modules that each one performs specific tasks and functionality. With NETx except the ability of documentation we can do also resource utilization analysis and tactical planning by using a range of modules and sophisticated mathematical algorithms.

NETx Professional is a tool of the German company **ITVision GMBH** and it is part of NETx Family Suite.

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Functional concept of the tool

NETx professional tool is used from the TTN Planning & Provisioning team daily and it is the major tool for keeping the Transmission network routing and network element inventory updated and possible to look up.

With NETx Professional Tool you can leverage the full potential of your access, backhaul and core network data for intelligent and cost-effective decision making of next-generation service delivery.

NETx Planning & Optimization solution dynamically collects and correlates the information you have in hand for design and provisioning of your network elements. Enables better planning for the future and control capital expenditures through NETx specialized software analytics capabilities. Ensures data integrity with real-time and trending data collected from all sources, including inventory systems, RF planning tools and NMS systems.

Summing up, the technologies currently supported and daily updated in NETx both in terms of Network elements and service routing are the following:

- PDH MW Links and PDH routing
- SDH MW links and SDH routing
- DWDM links and Metro Ethernet routing
- Hybrid MW links supporting Ethernet and TDM plus Ethernet routing
- Fiber Optic Rings and connectivity to the optical MUX network
- DXX Network and circuitry
- SDH and ATM network in terms of logical circuitry and VC protocols (all VCs are supported)
- VLAN Structures and routing (used for the 3G data modernized traffic)

Reporting

The daily tasks taking place by the TTN team are always mirrored into NETx so that work orders can be created more easily and the look up capability for all parts of the network can be simpler. Therefore TTN data mirrored in the tool is as follows:

- Traffic Routing of services over PDH/SDH/Hybrid/Ethernet/Fiber/Leased Lines
- Network Elements of all types and technologies
- MW Links (PDH/SDH/Hybrid)

All the above data can be exported to excel sheets or Visio Drawings, always customized to the needs of the customer.

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The Added Value of NETx Tool

Using NETx as a major planning tool in a network provider company has of course its added value which mostly lays on the fact that multiple network layers can be directly represented under one module report. See below the case study of **a Greek mobile operator** before the use of **NETx Planning Tool**.

Before embracing NETx Network Planning Tool the Greek mobile operator transmission planning team used to have separately databases for storing the routing of:

- PDH (TDM based) network paths
- SDH and fiber parts as well
- DWDM and metro Ethernet BB.
- MW links and leased line connections in the network

Therefore if a particular 3G or LTE routing is requested to be reported, the user should go into combining multiple databases to report the required result. This task became more hard and complicated if the end-to-end routing for a bulk of services is requested.

However, the use of a powerful modular planning tool like NETx can solve these issues by not only combining the end to end routing information under a single logical layer but can also produce reports of multiple stats regarding them. A brief list of the added value points that NETx can give to the planner can be seen below:

- Modules that ensure, that all network parts could be represented under a single umbrella
- Equipment can be categorized in many ways by using a dedicated field/tab called Project. This gives the ability to categorize any equipment by any value (geographical info etc).
- The whole workflow of the planning team within the company can be represented via specific modules in NETx.
- Can export/import data from/to any oracle database tools (e.g import RBS information per site from a different Radio tool).
- Get an accurate, end-to-end view of network capacity, inventory and traffic.
- Optimizing your current and future network.
- Your Network is Constantly Changing. NETx helps you keep up with the changes.
- Dynamic Network Modeling Optimizing your network.



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