

Link Designer



Simplified & Comprehensive Link Engineering

For those who design and configure links in optical networks and subnetworks, *VPIlinkDesigner™* is a cost-effective, easy-to-use tool which enables fast and optimum network design and provisioning.

VPIlinkDesigner provides an intuitive graphical interface and powerful algorithms for easy equipment placement and a systemwide performance assessment. It supports equipment configuration of networks with linear, branched, hub, ring and mesh topologies and offers detailed cost and performance calculation and reporting.

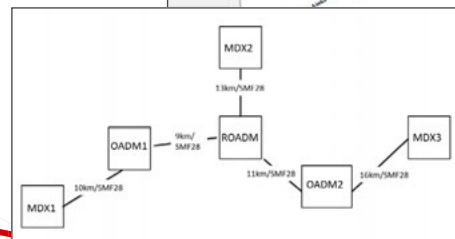
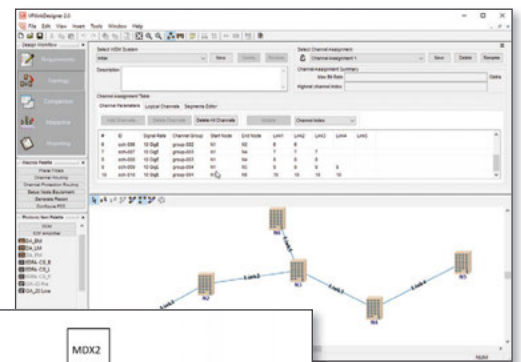
Whereas hours could be spent implementing a design by using a spreadsheet, *VPIlinkDesigner* enables the same network to be designed in minutes.

VPIlinkDesigner is ideal for carriers, equipment vendors, and any organization which may have campus-type or private networks. Utility companies, financial institutions, research organizations, and government organizations will benefit from the use of this tool. It is also ideal for system integrators who may be designing network solutions for custom applications.



Benefits

- ✓ Enables optical link engineering, with easy equipment placement and configuration
- ✓ Systemwide performance analysis including fiber impairments and equipment limitations
- ✓ Uniform results across an organization by using controlled equipment libraries and link design methodologies
- ✓ A future-proof platform utilizing a fully expandable technology-agnostic approach
- ✓ Built-in reporting tools providing BOM and performance reports



Product Features

Capabilities

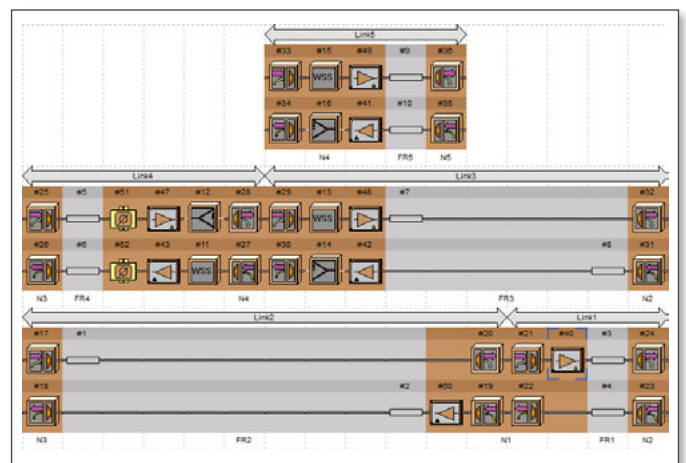
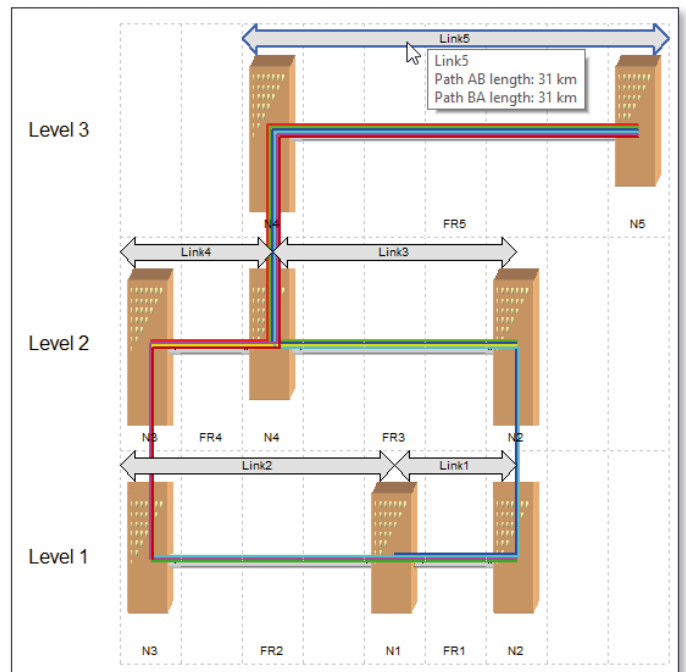
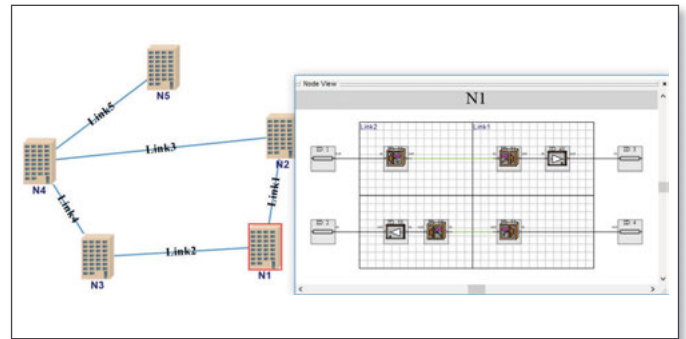
- Creates linear, branched, hub, ring and mesh topologies
- Enables visibility of regeneration points
- Supports OADMs, WSS-based ROADMs, banded designs, transponders
- Automated wavelength allocation
- Placement and configuration of passive and active components
- Generates BOM including racks, power supplies
- Enables performance analysis
- Deals with fiber impairments

Easy-to-use graphical user interface

- Intuitive interface provides process flow, facilities and equipment view
- Macros eliminate repetitive or complex tasks such as routing primary and protecting channels
- Topology Editor permits visualization of channel parameters such as route, bit rate and length
- Equipment is shown inside its facility
- Display detailed component connections including parallel structures (banded etc.) inside facilities

Intuitive display of performance results

- Metrics are plotted as longitudinal variations along the route or as spectra at each location
- Metrics are updated instantly to reflect any change in the design
- Limits and uncertainties are plotted, for example, the receiver sensitivity and overload



Topology in Graph, Level, and Photonic view



VPIlinkConfigurator & Design Services

As the volume and complexity of designs increase, upgrading to *VPIlinkConfigurator* may be warranted. This upgrade offers more design tools, a scripting platform for customizable user macros and broader list of equipment templates. Furthermore, *VPIlinkConfigurator* offers fully automated and cost-optimized placement of amplifiers and dispersion compensation elements.

VPIphotonics provides customization and programming services to help integrate *VPIlinkConfigurator* into your engineering and sales process.

Services include, for instance, the implementation of

- Custom equipment libraries
- Macros for the placement of passive equipment including custom control interface and rule sets
- Synthesis algorithms for link loss and dispersion compensation adhering to custom design rules
- BOM and performance reports according to company standards

VPIphotonics also offers design services using these tools to accomplish your network designs on a contractual basis.

For more information

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