HxGN NetWorks Comms | Path Manager

Accessing accurate network asset information and integrating it with other corporate information systems is key to improving customer service, optimizing business processes, containing costs and growing revenue. It enables communications companies to expand into new service opportunities, better serve existing customers and adapt quickly to the deployment of new network technologies.
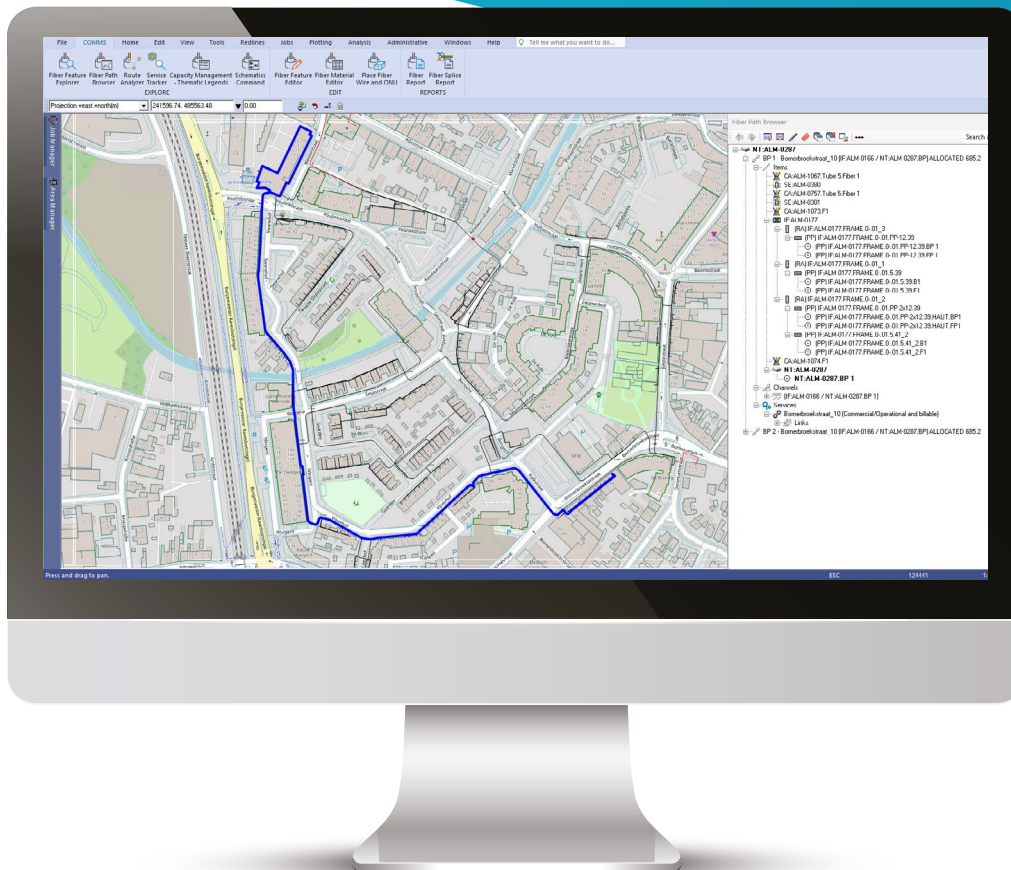
Part of the HxGN NetWorks Comms suite – an advanced telecommunications GIS that provides location-based information and tools for the complete lifecycle of civil infrastructure and fiber network management - HxGN NetWorks Comms | Path Manager provides all the necessary tools to manage your physical network inventory down to the individual fiber strand and device port.

Path Manager automates the creation of fiber paths, facilitating seamless integration with operational support systems. With a single mouse click, you can visualize the full, connected fiber path on a map, and it guides you through the individual components along the fiber path.

Extensive labeling of individual strands or ports streamlines fiber network management and reduces errors during network connection changes. It achieves this by displaying fiber path termination points when creating splice connections or patching cords on devices.

Benefits

- **Manage full fiber paths:** Facilitate circuit assignment, conduct fiber path analysis and add operational information about the status of individual fiber strands and ports

- **Enforce consistent designs and data integrity:** Implement business rules, design aids, a relationship model and data validation

- **Improve processes and save time:** Use efficient design tools, optimize assembly placements and employ advanced queries

- **Integrate with other systems:** Create a comprehensive, balanced view of related business information, including network and services data

- **Optimize financial investments:** Maximize the use of existing inventory

Users can display the optical line terminal (OLT) to the end user's optical network unit (ONU) on the map. Fiber Path Browser presents all path details, including elements (e.g., cable strand, splice boxes, devices and ports), associated fiber channels and allocated services.

Features

- **Fiber ports and strands:** Gather additional information for each strand in a cable and port-in device, such as identification (and tube or ribbon position), defective status, allocation reservation and fiber link data

- **Fiber links and channels:** Automatically generate fiber links and channels to visualize light paths based on connected ports and strands (essential for tracing and analyzing network connectivity and managing service allocation); these make it possible to build a layer for integration within the logical part of a network (fiber links and channels are a network database features and can possess its own attribution

- **Fiber Path Browser:** Browse, display and analyze each link and channel in the network; the tool is dynamically refreshed when any cable or device is selected across other tools (e.g., Fiber Feature Editor)

- **Fiber links and channels labeling:** Generate descriptive labels for links and channels showing end/start points and display it in the Fiber Report Form; Fiber Feature Editor provides comprehensive status information for each port and strand and can be extended with connection information (e.g., allocation or defective status)

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