

## Data Sheet: Inside Plant Design & Management

### Plan, Model, Build and Manage Inside Plant with spatialNET®

spatialNET® is a network design and management tool that helps network engineers design and manage fiber, coax, copper and power networks. spatialNET's open architecture and integrated product suite let you leverage the power of your network asset data throughout your organization to drive sales, marketing, construction, circuit planning, provisioning and network health monitoring.

*Seamlessly model end-to-end network connectivity from inside plant to outside plant, with full tracing capabilities.*

#### Inside Plant Design & Management

spatialNET inside plant management allows for the full modeling of facilities inside buildings such as central office, OTN's, fiber cabinets, etc. Multiple floors and vertical building views are supported, with architectural CAD drawings as backdrops if desired. The system automatically generates rack elevation and schematic connectivity views. Full connectivity is maintained, both within the building and to the outside plant facilities.

spatialNET's inside plant functions include:

- Model all equipment types via user-definable equipment dictionary entries
- Control change management to allocate future space and ensure that actual allocation occurs only once.
- Generate unique equipment IDs automatically
- Provide full support for colocated space and equipment
- Clone any existing inside plant configuration, including wiring and connections, from single device to an entire facility. All labels and IDs are automatically updated according to user definable rules
- Support off-line operations (where connection to a database is not available)
- Integrate with Web environment for viewing and redline markup
- Provide different levels of access and different views of the data to different user groups with user profiles and security masks
- Operate over LAN and WAN network environments. All functions, rules and graphical symbology are configurable to comply with any system's standards



- Support design engineers, operations staff, inventory and facilities managers, etc.
- Allow one touch addition of common multi-equipment configurations to the network (including wiring and connections) with intelligent templates



- Perform visual operations in a graphical environment (floor plan, elevation or schematic), or equivalently from tabular and text-based tools. Since all data is stored in a common database, updates can be made from any of the environments and will update all over views accordingly
- Support multi-floor facilities
- Support multiple racks in grid, referenced to their spatial location in aisles
- Reconnect cable to a different port in a functional schematic
- Manage and store network plant and facility inventory, configuration and connectivity documentation in an openly accessible Relational Database (Oracle or SQL Server)
- Audit all changes made to the system with job tracking
- Automate generation of Bill of Materials (BOM), cable run lists, and cable labels for single job, single function (e.g. Video, HSD, etc.), or entire facility
- Manage long-transactions to allow current and future views of the data to co-exist
- Trace network signal and power connections fully

- Integrate with outside plant fiber management and RF data to allow signal traceability from inside plant to fiber, fiber-to-node, node-to-RF device, and RF device-to-customer. Alternatively, inside plant facilities can be modeled without any outside plant data
- Trace outside plant-inside plant interfaces (such as fiber entrance cabinets)
- Integrate fully with CAD for precision data entry and high quality visual output
- Configure equipment dictionaries to provide equipment picker, embedded QA checks and automation functions to ensure valid and consistent network documentation
- Automate generation of rack elevation and network ortho-schematic views, directly from the database
- Model logical network (circuits and wavelengths) integrated with outside plant



spatialNET® is part of the spatialSUITE line of communications products from SPATIALInfo Inc.