

# Line Plant Management

- Network Inventory, Engineering, Design & Planning
- Network Assignment & Work Package Support
- Capacity Management & Reporting
- Managed Bandwidth Inventory & Assignment Integration
- Order Handling & CRM System Integration

## Integrated Network Solutions

Realworld's Line Plant Management (LPM) is a focused solution designed to enable operators to efficiently assign and manage services over their access network. It also supports the automated design and capacity management of network resources.

Built on the world-class foundation of GE Energy's Physical and Logical Network Inventory™ products and Realworld's Telecom products, LPM provides a configurable solution designed specifically for the end user.

### Overview

To sell services, operators must know where the network and customers are and whether there are available resources for circuit assignment. LPM provides the solution to this problem. It includes the ability to manage a complete connected model of all network equipment, civils and customer locations. All of the available paths for circuit allocation are recorded enabling the user to allocate resources to circuits and services and to track capacity utilisation.

LPM has been developed in conjunction with a number of Telecom operators to ensure that it provides a process-based interface to support common key functions including:

*Identification and reservation of free resources to support a given service from an address, including automated cabinet and exchange jumpering;*

*Support for moving services from one location to another;*

*Ability to reserve resources to facilitate repairs;*

*Ability to re-route services to avoid faulty equipment;*

*Built in engineering and process support for DSL service provisioning;*

*Monitor and identify when resources are running low;*

*Detailed capacity reporting of network resources;*

*Support for automated naming schemes for network equipment and cables;*

LPM also provides an integration framework for Enterprise Customer Care and Order Handling Software. Through this link, LPM forms an integral part of the order handling process, enabling a fast and accurate response to customer's service requests.

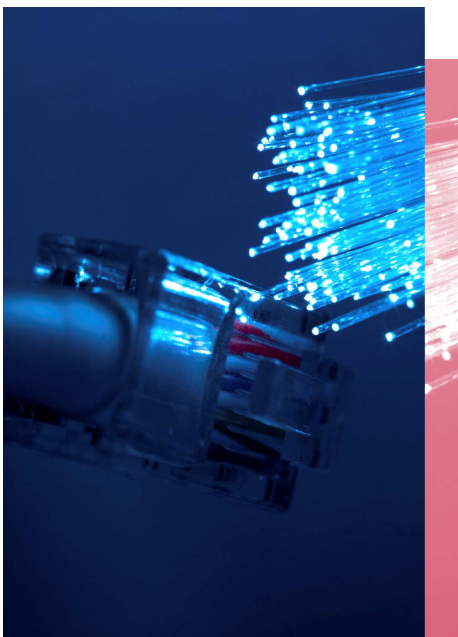
LPM is highly configurable and can be tailored to meet the processes, engineering and naming standards of your company in a product-based solution, ensuring a reduced cost of ownership.

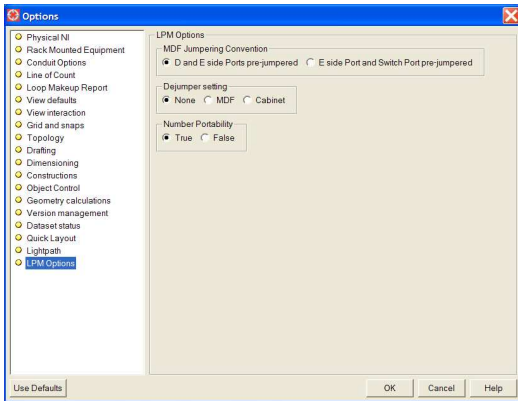
The key elements of the solution are described in the following sections:

### Network Inventory, Engineering, Design & Planning

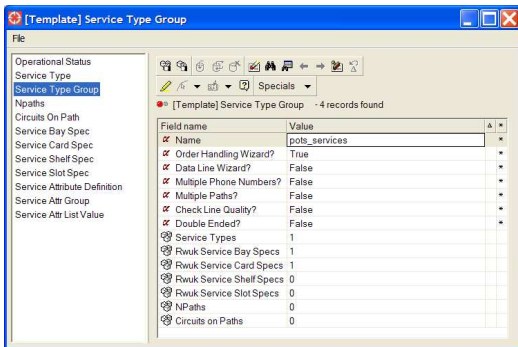
Based on the GE Energy Physical Network Inventory™ product, LPM offers a comprehensive model of all network equipment, structures, residential locations and business locations. Linking inside plant, outside plant and locations, a fully connected network can be designed. This links the customer to the exchange and the access network to the transmission network. LPM extends the model to include network-naming conventions, e.g. based on exchange and cabinet area.

It also adds a number of engineering speed ups to enable the automatic placement of groups of items, such as distribution points and their locations. LPM also automatically builds the connectivity of the network as the designer is working to improve efficiency and to support engineering design processes.





LPM options that defines how the system de-jumpers when a circuit is terminated.



Admin – Defining the rules that determine how a circuit is routed.



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## Network Assignment & Work Package Support

Powered by Realworld's LightPath solution, LPM enables you to assign network resources to circuits and to query the customers being served by all network equipment. LPM extends this functionality through a series of user-friendly, process driven wizards which support order handling, network reservation and replacement.

Whilst the order is being assigned, a jumpering schedule is created including the work required at the cabinets and in the exchange to implement the order. Integrated with the PNI design management environment, work packages can be issued to support network configuration.

## Managed Bandwidth Inventory & Assignment Integration

LPM provides a non-bandwidth management assignment solution that integrates fully with the GE Logical Network Inventory™ product. This enables the assignment of bandwidth-managed services over access and transmission networks.

LPM works with Logical Network Inventory to ensure that as the physical network is designed to support these services, the logical network elements and facilities, which support the services, are built into the logical network model automatically. Once the design of the bandwidth managed service is complete, Logical Network Inventory then synchronises this information with LPM so that a track of the circuits assigned to each physical cable and port is available for the management and configuration of these circuits.

## Capacity Management & Reporting

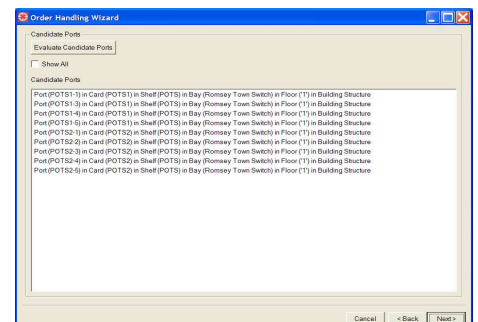
When incorporated with Realworld's Capacity Management products, LPM enables you to track and manage key assignable resources. These can be such things as spare assignable ports and cable resources by either rack or location, e.g. exchange, floor space, power and air conditioning and duct space. These products can also monitor resource utilisation and issue alerts when key user defined thresholds are reached.

Visual feedback and reports can be created to enable you to keep track of where new build may be required or spare capacity is available for additional sales. This minimises the cost and maximises the value of your networks.

## Order Handling & CRM Integration

The functions that support the built-in order handling, reservation and repair wizards are also provided as an API, to enable the automated assignment of services from a customer care or order handling system. This has already been used to create an integrated order handling solution in conjunction with Cerillion Technologies. networks.

Realworld's Line Plant Management solution includes a SOAP interface to the Cerillion Billing and Order Handling System. As part of the Line Plant Management Suit the functional integration has been enhanced providing a complete integrated CRM/Billing/Line plant solution, capable of assigning network resources to all current and future planned services.



Window from the order handling wizard showing the ports available for a new service.