



Software Solutions for Utilities

eRespond: Network Designer & Validation

eRespond: Network is designed to show 2 copies of the network a 'As Built' and 'As Operated'. It can take data from multiple sources to build the model and integrate into SCADA/DMS system for real time information

Network Model and Customer to Network Connectivity

Network modelling is a vital component in effective incident management. An accurate model of the network is the basis for determining which customers may be affected by a flooding incident.

LeT System's powerful network modelling tools allow for the mapping of your network infrastructure from premise to water treatment plant.

Graphical Front End

Our advanced application contains an extensive graphical front end that allows users to visualise and refine the network model. These proven tools are being widely used in outage management and, by a number of our clients, in direct application to meeting new regulatory requirement.

Features

- Network data can be extracted from multiple sources such as a GIS or NMS system with relevant network connectivity data
- Meter data can be taken for a CIS system or a GIS system or any other data source containing this info
- Our Spatial tool component can be used to link a customer to a device on the network. This spatial tool can also be used to add missing connectivity between the premise and the nearest device currently in the network model.
- Our Directed Graph tool (See Hierarchical Screen) can also be used to add missing devices to the network. This includes moving parts of the network using drag and drop.
- The utility does not have to perform any data capturing exercise out in the field.

- Mistakes in customer to network connectivity can be spotted visually and corrected quickly
- Corrections can be automatically fed back to source systems.
- Customer to network link can be 'cleaned' to correct any errors by analysing faults and calls logged allowing a customer to be associated with a different device.

The Connectivity Model

Utilities must be able to draw together a variety of sources of network information and maintain this effectively over time. To provide this we have developed a range of tools to support the development and maintenance of the connectivity model and the customer to network link. These include:

- Automated tools for the development of connectivity models from a variety of sources of data within the utility's current systems
- On-line algorithms that interpret flooding information to determine customer to network links
- A range of display formats to help operators interpret the network and the customer to network links, including tabular displays, map based displays, and 'explorer-like' browser models
- Identification of invalid network connections
- Identification of missing devices

This *eRespond* module builds a complete network model and is at the core of flooding management activities. Network assets are modelled in terms of sites and devices. Sites define the assets' physical location and related attributes. Devices define the asset details, e.g. type, pump, valve, sewage treatment works, etc.

Further Information

This product is intended to give a brief overview of the main functions and benefits of eRespond. For further details:

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