



Software Solutions for Utilities

eRespond: Network Designer & Validation

eRespond: Mobile can be configured to meet each utilities needs. We provide 3 different mobile clients these can be used in conjunction with each other or as stand alone systems.

Network Model and Customer to Network Connectivity

Network modelling is a vital components in effective workforce and outage management. An accurate, real time, model of the network is the basis for determining which customers have lost power and for effectively communicating with them during restoration.

LeT System's powerful network modelling tools allow for the mapping of your network infrastructure from EHV right down to the a customers meter. We work with your GIS, SCADA, Asset Management and CIS to create the template for the network map which we then build upon using successive iterations of data acquisition.

Graphical Front End

eRespond will deliver the requirements for network model improvements at the every level including transformer, feeder and customer level.

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 meters to a device on the network. This spatial tool can also be used to add missing connectivity between the meter and the nearest device currently in the network model.

- Our Directed Graph tool (See Hierarchical Screen) can also be used to add meters and other 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 LV device 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 outage 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 Islanded networks
- Identification of invalid network connections
- Identification of missing devices
- Identification of missing open points

This *eRespond* module builds a complete network model and is at the core of event and outage 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, identifier, circuit, voltage, phase, etc.



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Integrated with the other *eRespond* modules or implemented separately with existing solutions this solution delivers a key component to next generation Network Operations management systems.

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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