



JCMB Announces New Companion Tool for Adele—Connectivity Analyzer

For utilities striving to maintain clean, accurate data or for those providing support to field personnel, this could prove to be a challenging task, especially without the appropriate software application in place.

JCMB has developed a *Connectivity Analyzer*; this application is an add-on to the existing Adele product line. The Connectivity Analyzer allows users to perform queries based on connectivity trace results. This is generated by using JCMB's data mining tool, *Que*[™].

How can the Connectivity Analyzer add value to a Utility?

The Connectivity Analyzer is ideal for any Quality Control department that must ensure proper connectivity within their network distribution model. The data compiled from the QC department can then be viewed within *Adelette*[™], JCMB's viewer, and corrections can be made accordingly. It can be summed up as a preventative tool, heading off minor problems early on, so that they do not develop into larger problems at a later stage such as when deploying an Outage Management System (OMS).

While running *Que*[™], the Connectivity Analyzer will enable users to perform the following tasks:

Perform a Trace

- View all the connected devices and channels across the network.
- Verify integrity and connectivity of data.

Loop Detection

- Detect circuit loops which are of an abnormal distribution network state.
- Detect circuit loops generated by source discrepancy or by the mapping department.

Parallel Feed Detection

- Detect parallel feeds within the distribution network. (An open tie switch symbol to represent proper functionality is required).

Trace to Source

- Perform a trace from any device, and it will find the shortest route to the source by eliminating all other path routes.

Detect de-energized sections

- Detect circuit parts that are not connected to the rest of the circuit.

Retrieval of customer list based on a trace result

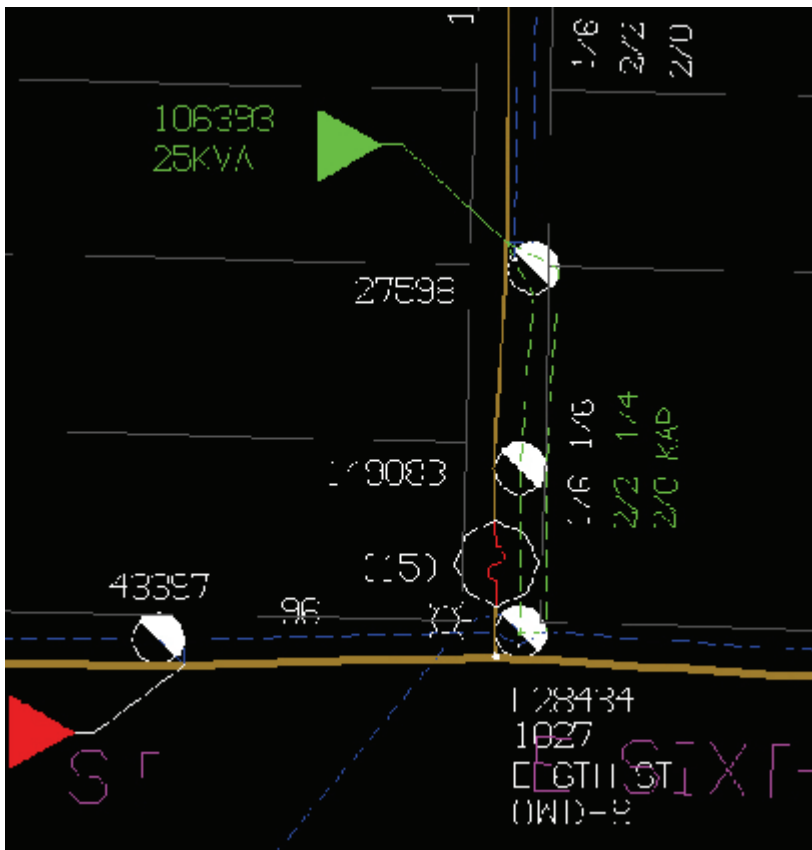
- Perform a trace or any segment of a circuit and retrieve a customer list base that is connected to the trace result.

What are the Benefits of the Connectivity Analyzer?

- Displays an accurate and up-to-date network model for field personnel.
- Provides data accuracy and connectivity required for any Outage Management System (OMS) load.
- Reduces over all QC time.

The following are examples of a query based on a trace result using Que.

Example A- Loop Detection



Source: SPPC - Screenshot of a loop

