

# VisNet<sup>®</sup> Apps: Reactive and Proactive Reliability

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## Remarkable Apps For Reliable Networks

Quickly detect and respond to potential and actual faults and outages in your electricity networks.





# Remarkable Apps for Reliable Networks

The low-voltage (LV) distribution network has been in operation for over a century, with much of the infrastructure significantly degrading over time. As demand on this ageing network grows, particularly with the integration of low-carbon technologies (LCTs), fast issue detection and resolution are essential to maintain a stable power supply.

To meet these challenges, network owners and operators are increasingly relying on automation and intelligent data processing to efficiently manage assets, prevent failures and identify areas for reinforcement.

VisNet® Apps coupled with the VisNet Hub provide a cutting-edge solution, using configurable on-device algorithms to filter and process relevant data directly from your network. Insights are visualised

through our intuitive Detect Pro user interface, offering a clear view of performance. Operating within a secure, encrypted environment, VisNet® Apps ensure data protection. Seamless over-the-air (OTA) updates allow for easy installation of new apps and features, while regular firmware updates keep your system optimised.

With VisNet® Apps, the VisNet Hub, and Detect Pro, you can efficiently monitor and enhance your network.



## VisNet Reliability Apps: Finding the Faults... Fast!

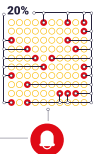
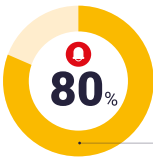
Stay one step ahead with our powerful insights and innovative solutions.

The VisNet® Reactive and Proactive Reliability Apps deliver the support you and your network need. Alongside fast identification and resolution of issues through real-time monitoring, the Apps offer alerts for loss of supply and pre-fault activity, as well as identifying fault type and location. This data is analysed using advanced algorithms that can determine the health of the cable circuits that make up your LV network.



### DID YOU KNOW?

80% of faults are from 20% of LV circuits. We can tell you which ones!

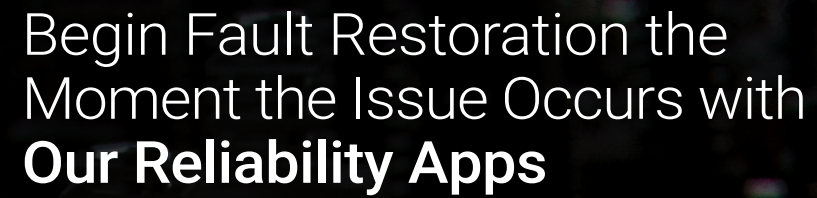


### DID YOU KNOW?

Our Reactive Reliability App provides real-time alarms of LV fuse operations, alerting you faster to loss of power to customers, up to 120minutes faster!



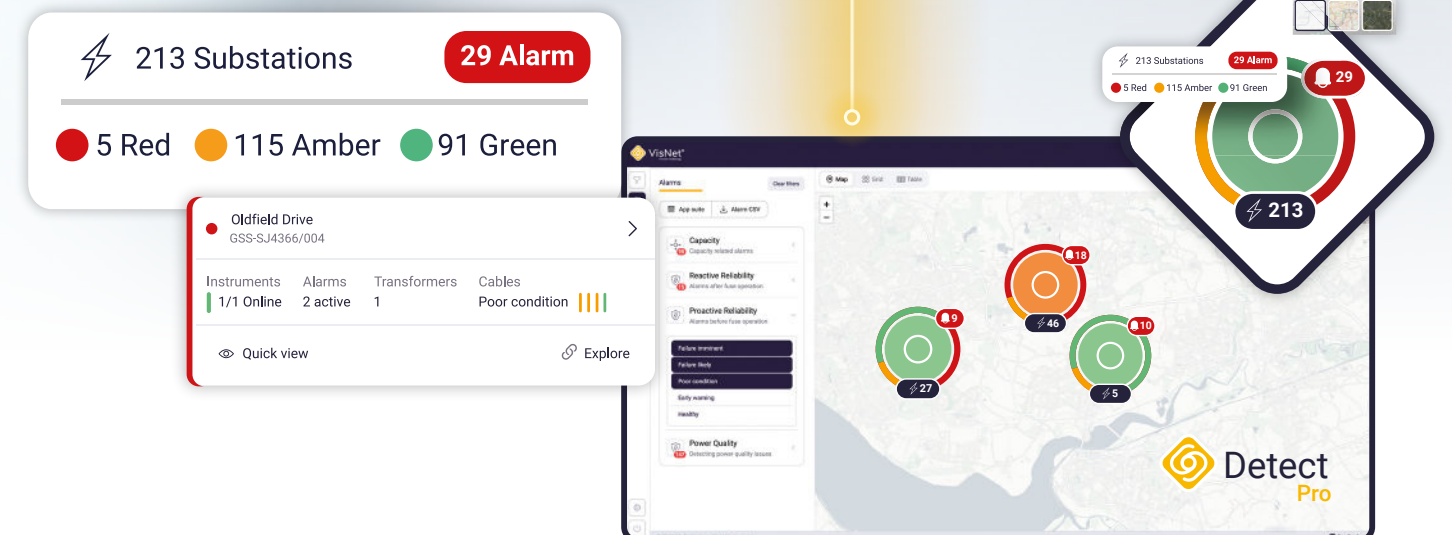




# Turn Data Into **Actionable Insights**

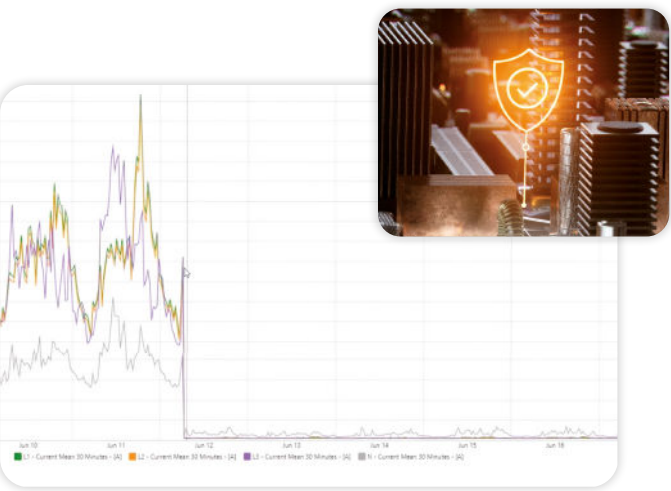
The user interface of VisNet Detect Pro is built for effective visualisation. It allows you to quickly identify any network issues at a glance. And if you need to dive deeper, you can drill down into the details to understand exactly what is causing the problem. Gain a clear understanding of your network operation and take control of any issues that arise.

Diagram illustrating the relative sizes of the Sun and Earth. The Sun is represented by a large yellow circle with a diameter of 10m, labeled 59%. The Earth is represented by a small green circle with a diameter of 5m, labeled 49%.





# The Apps Your Network Needs



Transformer 1

Way 3: High St/Central Drive

Feeder Alarms	L1	L2	L3	N
Fuse Blown				
Feeder Short Term Overload				
Feeder Long Term Overload				
Reverse Power				
Phase Imbalance				

Latest Impedance	L1	L2	L3
Impedance Value	107.6	107.6	88.1
Impedance Type	Phase	Phase	Loop



### DID YOU KNOW?

You can cut customer outages by up to 120 minutes by responding to VisNet Hub alerts!



120 Minutes

## Reactive Operations App

Reactive. Reliable. Remarkable.

Our Reactive Operations App provides real-time monitoring and alerts for loss of supply, along with detailed insights on the fault type, location, and the overall health of the cables that make up the network.

The App analyses data gathered by the VisNet® Hub to allow operational teams to quickly detect and respond to faults and outages, reducing Customer Interruptions (CI) and Customer Minutes Lost (CML). Maximising network reliability and minimising downtime, the App also supports asset management and operational planning teams to optimise maintenance schedules and guide long-term investments.

The many benefits of our Reactive Operations App include:

- **Fuse blow identification:** providing immediate alerts when a fuse blows, allowing for rapid response and ensuring DNOs know of faults before a customer call, enabling fast power restoration.
- **Impedance to fault data:** pinpointing the origin of faults with high accuracy.
- **Fault type identification:** helping operators understand the nature of the issue.
- **Fault energy:** supporting asset management teams to evaluate the impact that fault events may have on the ageing of local assets.

## Proactive Operations App

Proactive. Protective. Powerful.

Our Proactive Operations App uses pre-fault data to identify potential faults and outages in the distribution network.

The technology has been expertly designed for network operators and maintenance teams who need to resolve potential issues before they occur and cause a loss of supply. The App uses data from VisNet® LV monitoring hardware, allowing maintenance teams to anticipate, as well as prevent faults and outages, ensuring a reliable power supply to customers, meaning maintenance and repair costs are minimised.

Packaging insights from pre-fault data, the App provides network operators with a comprehensive overview of their LV assets' condition.

The many benefits of our Proactive Operations App include:

- **Pre-fault waveform capture:** shows the characteristics of the fault.
- **Impedance to pre-fault:** pinpointing the origin of potential faults, guiding network operators on where to focus their efforts.
- **Circuit condition:** categorising LV circuits from 'failure imminent' to 'healthy', helping operators prioritise proactive responses.
- **Event trending:** tracking changes in circuit condition over time, identifying trends that might indicate deteriorating assets and supporting timely intervention.



### DID YOU KNOW?

We predicted 71% of LV faults which subsequently occurred within a year.





# Capabilities For A Changing Market

The electricity network is undergoing a period of rapid consumer transition, including the growing popularity of electric vehicles and heat pumps. Pressure is increasing on the LV underground cables that deliver power to our homes and businesses.

**As the pressure society puts on the LV networks grows, ensuring the reliability of those networks becomes increasingly crucial. Our Reliability Apps deliver the support you need.**



## DID YOU KNOW?

Over 50% of feeders identified by our VisNet reliability apps as Failure Imminent will fault in the next 6 months.



To book your demonstration or to receive further information, please contact us on:  
**+44 151 347 2313**, email: **[sales@eatechnology.com](mailto:sales@eatechnology.com)** or visit: **[www.visnet.tech](http://www.visnet.tech)**