



# High Impedance Detection

## Distributed Intelligence

Early and real-time identification of low-voltage distribution hot spots saves time, money and keeps your customers safe.

High Impedance Detection is the identification of high impedance connections or “hot spots” anywhere in the LV distribution network. These can occur at any connection point in the LV distribution network, including at the meter and socket, and may result in voltage complaints, connection failures, outages and fire.

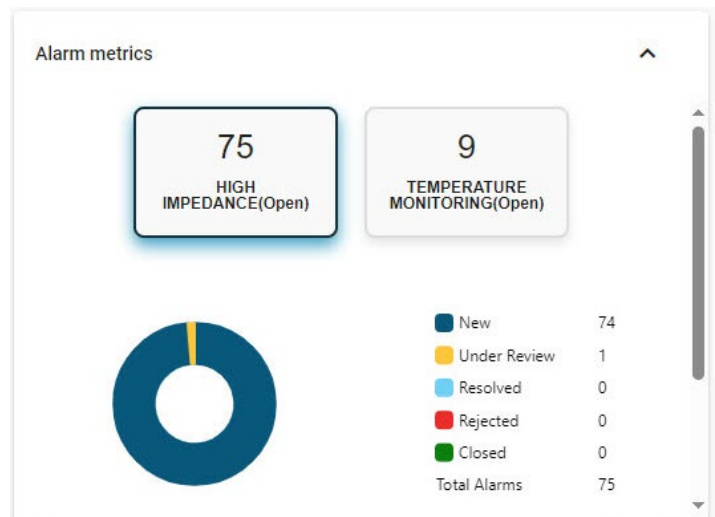
### WHAT DOES IT DO?

Using the power of the Itron Network and distributed intelligence platforms, High Impedance Detection provides near-real-time alerts to the utility to save money and time while increasing customer safety.

### The Value of High Impedance Detection

A highly accurate, near-real-time monitoring system working around the clock helps:

- » Ensure service is performed when needed, before high impedance issues grow into more expensive or dangerous ones
- » Lower costs by turning future, unplanned outages into planned maintenance jobs
- » Deliver necessary accuracy and confidence levels
- » Enhance customer safety
- » Improve business operations



This is a visual representation of the alarm metrics. Here, customers will also see alarms for temperature monitoring (if given access).

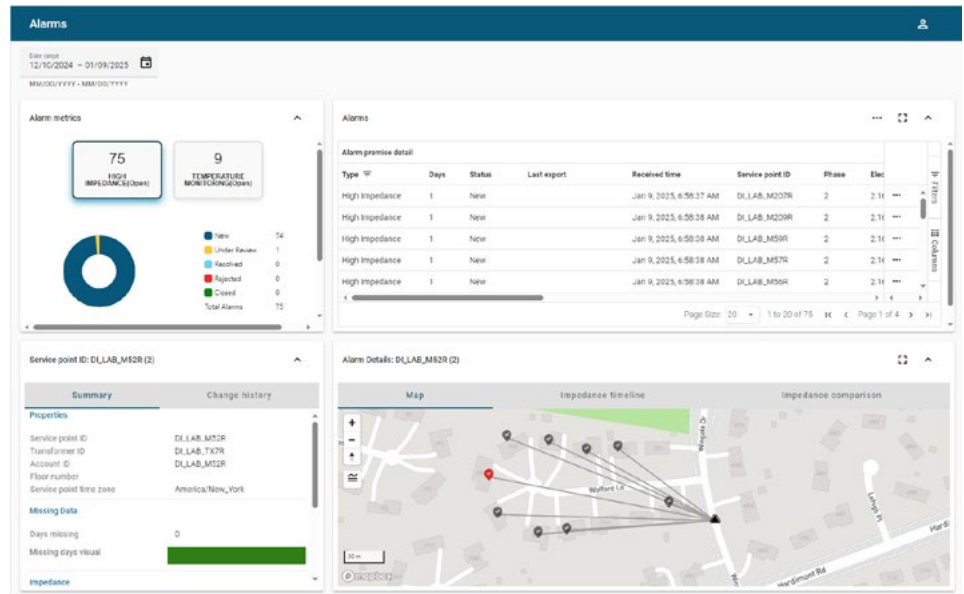


These alerts are sent to an Itron application for viewing, prioritization and action at the utility's discretion. APIs are also available for integration directly into utility workflow and other systems.

This unprecedented visibility into connectivity enables Itron to unlock tremendous new value in grid safety and operations, bringing new capabilities to grid edge intelligence via entirely new applications that previously didn't exist—all while performing analysis on high-frequency data to deliver the necessary accuracy and confidence levels previously unheard of.

### CONFIGURATION

All distributed intelligence applications have extensive configurations, allowing Itron personnel to make environmental adjustments as well as algorithm adjustments via a Configuration Change Request SaaS workflow including the utility. Some configuration parameters are exposed to the utility as is needed to allow self-management.



This is a view of the entire homepage. As you can see, this layout provides a quick visual of what is happening.



The map is a quick way to view where the impedance event is occurring, as well as where the connected transformer/meters are.

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