

# Fault Detection and Localization

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Aclara's fault detection and localization (FD&L) module in AclaraONE® provides a robust, real-time view and response to the when and where of outages on an electric distribution network. This software as a service capability displays outages, identifies fault locations, and verifies restoration. By offering enhanced system monitoring and diagnostics, the FD&L module supports overall improvements in CAIDI and SAIFI.

## How does FD&L work?

FD&L leverages the unused capacity of Aclara's TWACS® AMI system to monitor both the AMI and electric distribution system automatically and continually. Using patented algorithms, FD&L strategically pings a group of meters every few seconds.

This powerful tool monitors distribution connectivity, detects consumer outages, identifies the fault location, and indicates when each outage has been restored. The real-time MultiSpeak integration with OMS allows FD&L to provide dispatch with faster and more accurate information.

FD&L provides a new level of automation for detecting, verifying, and restoring outages. It allows for accurate dispatching of crews to the right location, while also providing visibility into the distribution hardware powering the meters.

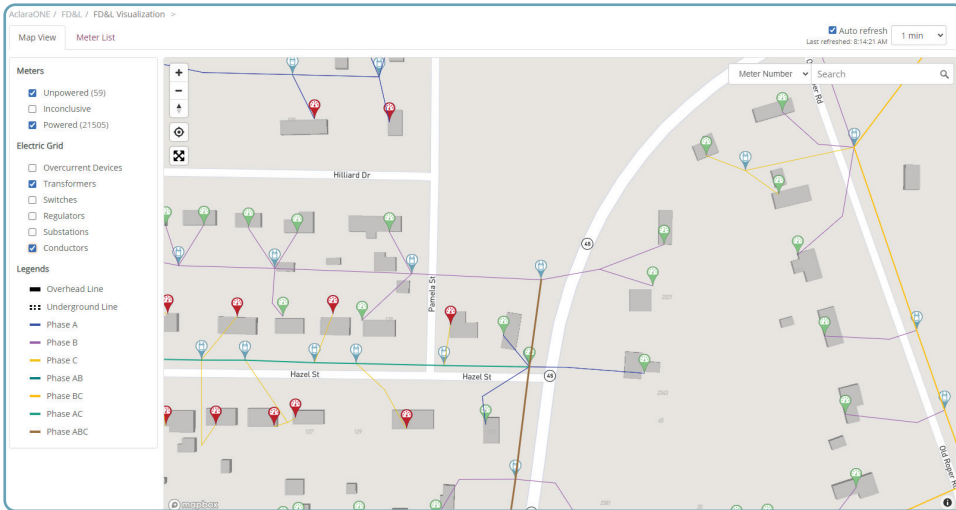
## Easy-to-read map view

The FD&L module offers maps that are easy to read and navigate and includes both a default and a satellite map view option.

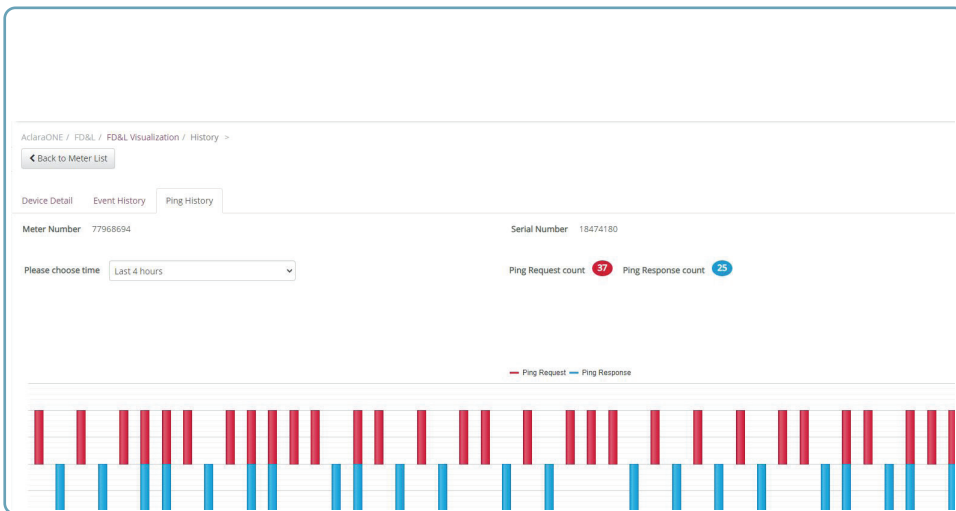
## Additional features of the FD&L module in AclaraONE

- Account, premise, and map location IDs of meters
- Weather and temperature views
- Indication of recent changes in meter status





View current status of meters on the map, as well as the related conductors and distribution hardware.



View ping results and responses over time on a configurable time-series chart.

The screenshot shows the 'History' view for a specific meter, displaying a table of meter status changes over time. At the top, it says 'AclaraONE / FD&L / FD&L Visualization / History' and has a 'Back to Meter List' button. Below this are tabs for 'Device Detail', 'Event History', and 'Ping History'. The 'Event History' tab is active. It displays 'Meter Number: 77968837' and 'Serial Number: 18619681'. Below this is a table with columns for 'Meter Status' and 'Event Time'. The table contains the following data:

Meter Status	Event Time
Unpowered	06/13/2023 08:03:54 AM
LikelyUnpowered	06/13/2023 08:03:18 AM
Inconclusive	06/13/2023 08:01:22 AM
Powered	06/13/2023 07:50:24 AM
Inconclusive	06/13/2023 07:50:15 AM
Unpowered	06/13/2023 07:34:12 AM
LikelyUnpowered	06/13/2023 07:33:53 AM
Inconclusive	06/13/2023 07:31:48 AM
Powered	06/13/2023 07:21:27 AM
Inconclusive	06/13/2023 07:18:27 AM
Unpowered	06/13/2023 07:06:45 AM
LikelyUnpowered	06/13/2023 07:06:36 AM
Inconclusive	06/13/2023 07:04:12 AM
Powered	06/13/2023 06:48:45 AM
Inconclusive	06/13/2023 06:47:24 AM
Unpowered	06/13/2023 06:34:23 AM
LikelyUnpowered	06/13/2023 06:33:36 AM
Inconclusive	06/13/2023 06:32:06 AM

View outage status of any meter over time.



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Aclara.com | 800-297-2728 | info@aclara.com

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