

The background of the top section features a dark blue and teal color scheme. On the left, the Siemens logo is displayed in white. The central and right portions show a rack of industrial control units with multiple ports, a large monitor displaying a complex interface with charts and data, and another smaller monitor showing a waveform graph. The overall aesthetic is high-tech and digital, with faint grid lines and data points visible in the background.

# SIEMENS

*Ingenuity for life*

## Grid Diagnostic Suite – SICAM Localizer

Fast and efficient fault localization  
for overhead lines

Powered by  
MindSphere

[siemens.com/iot-energy-automation](https://www.siemens.com/iot-energy-automation)

### Modernization of distribution grids

A safe and reliable supply of power for utility, industrial and private customers is now more in demand than ever before. Existing distribution grids, however, have historically been very limited in their ability to use automated and intelligent methods and are thus hard to troubleshoot. When a fault occurs, the physical extent of these networks makes it difficult to identify its exact location and usually involves considerable time-consuming manual labor. Maintenance teams have to check the status of fault passage indicators (FPIs) along overhead lines or check individual substations sequentially in order to locate and correct the fault.

This leads to unnecessarily high maintenance efforts and costs, especially for grid distribution operators.

The SICAM Localizer automates the tasks of reporting and localizing faults on overhead lines by using IoT-enabled devices reporting to MindSphere, our cloud platform of choice for quick and universal access to all essential information.

### Our solution for automated fault localization

In our solution, the SICAM FSI (Fault Sensor Indicator) – a mature and established product for detecting fault currents – was enhanced with a short-range wireless radio interface to communicate warning messages to a nearby SICAM FCG (Fault Collector Gateway), which in turn establishes communication over cellular networks into the cloud and can connect with up to 9 FSIs.

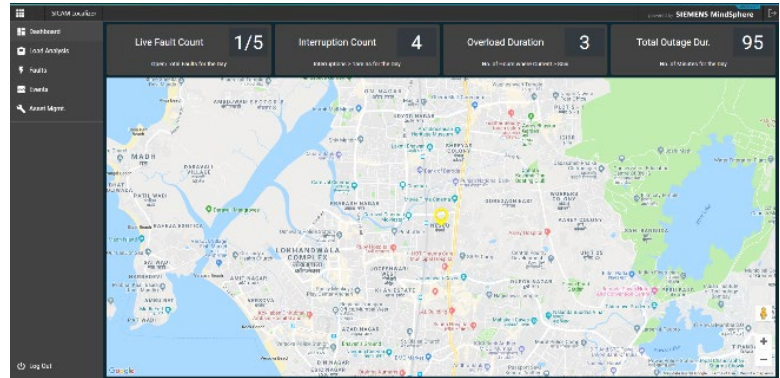
#### Customer benefits

- Reduce costs through fast and efficient automated fault localization for in distribution grids
- Deployable in any area with mobile network coverage
- Easy integration and secure IoT communication with MindSphere



## Geographic view

- SICAM FSI locations
- Fault location
- Device status updates



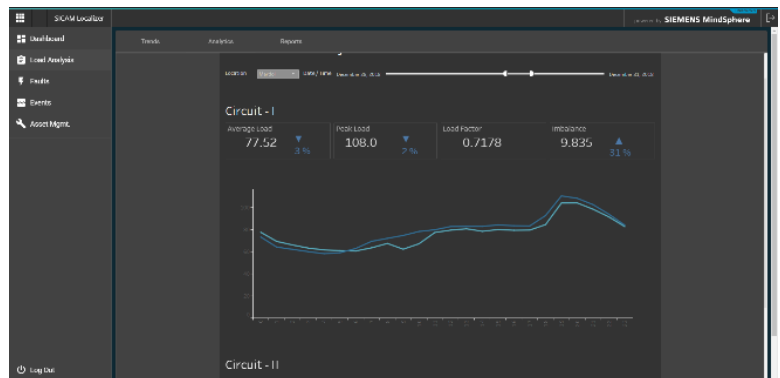
## Event/fault report view

- Visualize and generate customized reports for selected overhead lines feeder network based on performance



## Load analysis view

- Analyze the performance of a selected feeder or phase of a feeder



## SICAM Localizer

A MindSphere application for automated fault reporting and fault localization on overhead lines that helps power grid operators to optimize maintenance activities and reduce outage time.



Siemens 2019  
Smart Infrastructure  
Digital Grid  
Humboldtstrasse 59  
91459 Nuremberg,  
Germany

For the U.S. published by  
Siemens Industry Inc.  
100 Technology Drive  
Alpharetta, GA 30005  
United States

Customer Support: <http://www.siemens.com/csc>  
© Siemens 2019. Subject to changes and errors.  
SICAM Localizer\_10.19.pdf

For all products using security features of OpenSSL, the following shall apply: This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit ([www.openssl.org](http://www.openssl.org)), cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)) and software developed by Bodo Moeller.