VAISALA

Thunderstorm Manager™

Professional Thunderstorm Tracking and Alert Management Application
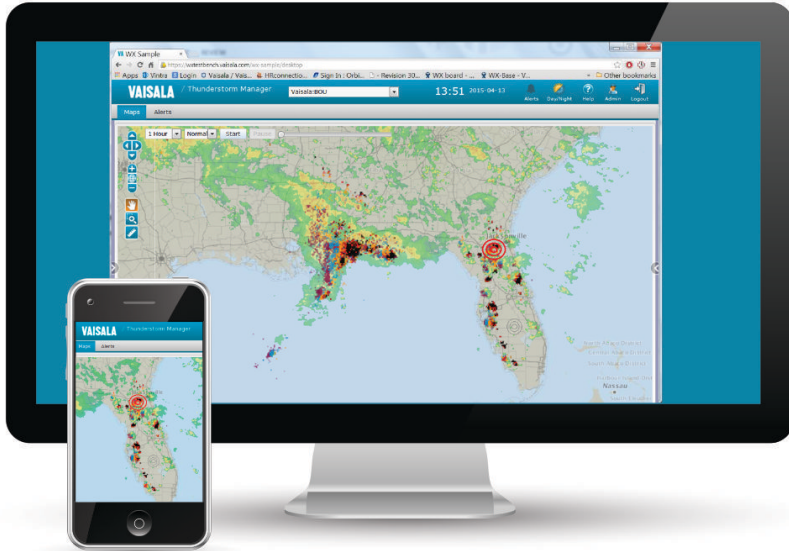
Vaisala Thunderstorm Manager™ is the latest application to assist you in tracking approaching storms; it supports a broad range of applications from synoptic or national scale lightning surveillance, to keeping local ground and maintenance crews safe, and operational stoppages at a minimum.

Overview

Vaisala Thunderstorm Manager™ is a web-based application that helps you track approaching storms in real time.

You can use a desktop or mobile device browser to access the displays. One or multiple sites with alerting rings or polygons defining an alert region will serve to notify you about lightning taking place in the area.

When it is your job to keep operations running efficiently, protect assets, or worry about the safety of people when severe weather approaches, you need easy access to timely and accurate information. Vaisala thunderstorm tracking systems have been providing this information for over a decade, always bringing you the detailed information you require for weather monitoring.

Trusted Lightning Data

The Vaisala Thunderstorm Manager™ tracking system utilizes Vaisala's global network of lightning sensors (our Global Lightning Dataset – GLD360) and our high precision lightning detection network in North America (the National Lightning Detection Network – NLDN) to provide alerts in virtually any location around the world, as well as oceans, high mountain peaks, and other places not covered by radar or other meteorological instruments.

If your operations require accurate lightning storm status over a small area, globally, or anything in between, rely on the most scientifically validated lightning networks in the world with close to 100 % thunderstorm detection – Vaisala lightning networks.

Technical Data

Browser compatibility (Windows, OS X, Linux, iOS, Android)

- Internet Explorer 8 and newer
- Firefox
- Chrome
- Safari

Expandability

- WMS Layers
- Polygon shape alert sites around customer assets
- Web relay service to control lights, horns, and other equipment (customers provide their own hardware) using the alert service

Alerts

- The alert system is continuously working in the background and is independent of the display
- The system can issue different types of notifications (e.g. Info, Caution, Alarm), depending on the lightning distance to the site, for multiple alert sites per region of coverage
- Alert notifications via email or SMS, including All-Clear notices

Lightning Data Source

- U.S. National Lightning Detection Network®

- Global Lightning Dataset GLD360
- Private Vaisala Precision Lightning Network (with additional server support)

General Features

- Display of cloud-to-ground and cloud-to-cloud lightning
- Display of lightning polarity and graphical representation of the magnitude of each strike
- Time discrimination of lightning to determine the storm path through color coded symbols (0 to 25 minutes, 5 minute increments and 0 to 120 minutes, 15 and 30 minute increments)
- Display of coordinates that follow the cursor
- Zoom and Pan with dedicated zoom area selection
- Add your assets to the map using circles or polygons
- Measure distance between two points (e.g. between strike location and asset)
- Individual user login
- Toggle Day and Night modes
- Layered technology allows for adding more weather information from multiple sources (radar and satellite, where available)

Alert Features

- Add as many alert sites as necessary
- Add up to 3 levels of warnings per alert site
- Define alert regions using circles or polygons
- Get e-mail or SMS alerts to a cell phone triggered by lightning in each site's alert area
- Deliver alerts to multiple e-mail addresses or cell phone numbers
- Get All-Clear alert notifications when no discharges have taken place after a predetermined amount of time (e.g. 30 min)

Animation Features

- Choose from multiple time periods (from ½ hour up to 24 hours)
- Choose from multiple speeds
- Ability to animate lightning, radar and satellite at the same time (radar and satellite cloud cover not available worldwide)

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