VAISALA

RoadDSS® Manager

Vaisala RoadDSS Manager is a road weather software system that provides the decision maker with a complete set of tools to make operational decisions.

RoadDSS Manager allows decision makers to access all relevant weather data, such as fixed road weather stations, mobile road weather data, vehicle traffic, satellite and radar information, in one location.

The system provides a complete view of road weather data through time, by providing historical views of past information, conditions in near real-time, and predictions of conditions in the future with road weather forecasts that allow for proper planning. Using all of this information, RoadDSS Manager integrates the road authority's own operational guidelines and policies to provide treatment proposals, delivering a consistent guide for decisions makers.

A True Decision Tool

The growing trend in decision management tools is to not only provide quality information to make a decision, but to also provide a proposed action. RoadDSS Manager takes in current conditions, past maintenance activities, and road weather forecasts, and provides a treatment or maintenance strategy.

The proposals do not replace an actual human decision maker, but give guidance as to what they could be doing based on best practices and approved policies. The tool is perfect for inexperienced supervisors, or agencies wanting to deliver efficiency and consistency in decision making.

RoadDSS Manager enables the implementation plan to be tracked through to completion in the operations screen. This ensures the agency has a full audit trail of operational activity.

A final critical piece of decision making is communicating information out to the stakeholders in a efficient and uniform way. RoadDSS Manager takes care of this for you, improving your speed of decisions.

Data Across Time

With RoadDSS Manager, the decision makers get a total view of the data throughout time. Historical data is easily accessible and the displays can be viewed exactly as they appeared during an event. The data provides a learning tool for analysis of past performance with a real understanding of the outcome.

RoadDSS Manager also provides a wealth of current road weather information in several views and displays. Other weather data, such as radar and satellite images (if available) can be viewed with the road weather data, providing a complete weather picture.

The most critical weather information for decision making is knowing the future state of the road. RoadDSS Manager allows viewing the forecast surface state with intended treatment before confirming the plan.

Technical Data

Map Displays

- Street level resolution map displaying station information, including air and surface temperature, surface state, wind, camera images, precipitation, humidity, traffic data and much more, depending on the sensors installed.
- Color coded status parameters including surface temperatures, surface state, wind speed, level of grip, and visibility.
- Optional displays such as radar, lightning, and terrain maps.
- Zooming in an out capability and the ability to go back or forward 24hrs to see observed and forecast values of all station parameters.

Stations

- Display camera image, if available, along with surface state and select weather parameters, in addition to a wind rose indicating wind speed and direction.
- Configurable Graph Tabs
- Surface state bars showing road conditions and road state, past current and forecasted.
- Wind speed and direction on a timeline that can be adjusted to see more or less past conditions and forecast.
- Forecast text describing conditions for the next hours or days.
- Alert Management capability to provide weather alerts on wind speed, visibility, and slippery conditions, and choice of e-mail and/or SMS messages.
- Camera Wall showing current image displays from weather stations equipped with cameras.
- Wind Rose Wall displaying wind data and threshold breach alerts from all weather stations equipped with appropriate instrumentation on the network.

Weather Forecast

Text and chart displays of multiple forecasts including Morning Summary, 24 hour forecasts, 2-5 day forecast, or other type, based on forecast supplier data.

Planning

- Ability to set up an unlimited number of routes, with the flexibility to group them according to the operational workflow.

- Auto-propose capabilities that takes the current and forecasted conditions and proposes treatment as a starting point, based on previously set up road authority guidelines.
- Ability to manually propose treatments or edit auto-propose actions.
- Surface state displays of road conditions before and after proposed treatment, in the forecasted side of the timeline.
- Display of the Stations graphs with the added benefit of seeing the forecast surface state after one or more treatments.
- Selection of Cause, Action, Start Time, and Comments for each of the treatment proposals (manual or automatic).
- Continuous tracking of events and treatment proposals.

Operations

- Software can be used to efficiently communicate current maintenance strategies to crews and other stakeholders.
- Continuous tracking of operations
- Ability to adjust start and end times of the operation.
- Ability to add comments for justifying each operation or indicating changes to the standard procedure.
- Track start and end times, treatment cause, and comments for each phase of the operation.
- Electronic date time and user stamp associated with each logged activity enabling comprehensive audit trail.

Miscellaneous

- Archiving capabilities to review past performance and decisions made. Screens display the same information that was displayed at the time.
- User hierarchy to manage access rights and enable tailoring in accordance with job role.
- Data Reports and Online Help
- Multiple logins per customer, with user personalized displays
- Comprehensive audit trail

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