

Vaisala Weather API and Weather Map API

Accurate, real-time hyper-local weather data and forecasting



Key benefits

Accurate weather data for business decision-making

Vaisala continuously improves forecasting methods, resulting in even more accurate forecast data going forward for all customers.

Real-time global weather forecasts

Forecasts are generated at the time of the API query and calculated for the exact location requested, resulting in fresh, hyper-local information about specific locations around the world.

Robust Weather Map API overlays and API integration

Vaisala provides map overlays of all relevant weather parameters. Data is delivered as commonly used map tiles compatible with Open Street Maps, Google Maps, HERE Maps, Bing Maps or any other map using standardized tile indexes and can be integrated using the LeafLet API.

Capacity to meet the needs of high-volume applications

Vaisala offers high performance API services, capable of meeting the needs of high-volume applications and providing hundreds of millions of forecasts per year for a single customer without sacrificing efficiency or cost-effectiveness.

Weather plays a key role in the quality of products and services offered for consumers and businesses. By delivering premium weather and forecast data in real time, Vaisala nowcasting technology enables clients across multiple sectors to display weather forecasts and to make data-driven decisions for a wide variety of business use cases.

Vaisala Weather API and Weather Map API incorporate the best numerical weather models available, creating a powerful system to calculate reliable and accurate forecasts that serve the needs of both businesses and consumers. In fact, the enhanced modeling and predictive capability of Vaisala nowcasting technology has made the first few hours' forecast data extremely accurate and expanded even more new use cases for Weather and Weather Map API.

Vaisala Weather and Weather Map API at a glance

Applications

- Optimizes operational decision making, providing data for uses such as calculating fuel efficiency in weather conditions or maximizing consumer behavior in retail situations, with real-time forecasts
- Supports research and development for weather-related digital products and services
- Real-time weather mapping for businesses with assets and interests around the globe
- Integrating weather observations from customer-operated weather stations creates high quality tailored forecasts close to the weather station location. Measurement and sensor equipment is available from Vaisala for customers without devices.
- API data can be easily optimized for a variety of use cases and consumer-facing products.

Key features

Service Level Agreement (SLA) ensures that customers get the most value from their investment. High-quality technical support quickly and thoroughly addresses problems so that customers have continued access to the data.

Easily customizable for different use cases, with multiple additions and extensions to capture even more facets of weather and climate data, for an API tailored to customer needs and supported at the enterprise level.

Incorporates data sourced from numerous high-quality sources around the world under continuous evaluation. Vaisala calculates its own numerical weather predictions and employs a sophisticated data fusion system which automatically chooses the best data sources for every context.



Why Vaisala?

Vaisala's weather and environmental technologies enable unrivaled road network awareness — keeping roadways safe and efficient in any season.

As the gold standard for precision and reliability, Vaisala's holistic approach provides customers with end-to-end simplicity, valuable partnership, and a comprehensive portfolio of solutions that are constantly evolving. Our 85+ years of innovation are reflected in our guiding principles for roads:

1. Move ahead

Only Vaisala provides data of unrivaled depth and breadth while synthesizing it into objective decision support — so everyone can keep moving toward better, more insightful ways of operating.

2. Mobility and beyond

We deliver the right insights to the right people at the right time, enabling a wide range of stakeholders to act with confidence and achieve a comprehensive understanding of their road networks and the vehicles on them — creating better, safer outcomes for all.

3. The innovators

As a recognized industry expert, we continuously apply our knowledge and experience to create next-generation solutions that advance the industry; enabling stakeholders to innovate and optimize road networks like never before.

4. See, understand, decide

Vaisala gives users rich data intelligence that improves real-time decision-making as well as observation enhanced forecasting to enable strategic planning. With a better, fuller understanding of their road network, users can do their jobs more decisively and effectively than ever.

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