Vaisala Weather API and Weather Map API
Accurate, real-time hyper-local weather data and forecasting

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.

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.

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 add-ons 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?

Real-time weather forecasts providing accurate weather data for global locations

Vaisala Weather and Weather Map API draw from 80+ years of weather measurement expertise to create industry-leading forecasting and weather data. Not only does Vaisala nowcasting technology create highly accurate real-time data for businesses around the globe, a broad product portfolio enables customers to easily access weather measurement hardware solutions, air quality monitoring, and many more tools to support their weather monitoring needs.

Support and services you can count on

Look to Vaisala for dependable support, tailored solutions, and training so you can get the most from your system. With decades of experience providing the best technologies and the finest support, Vaisala's philosophy of partnership is unmatched in the industry.

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www.vaisala.com/weatherdata

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