



EventHub

| a Quartile
product

Product Brief



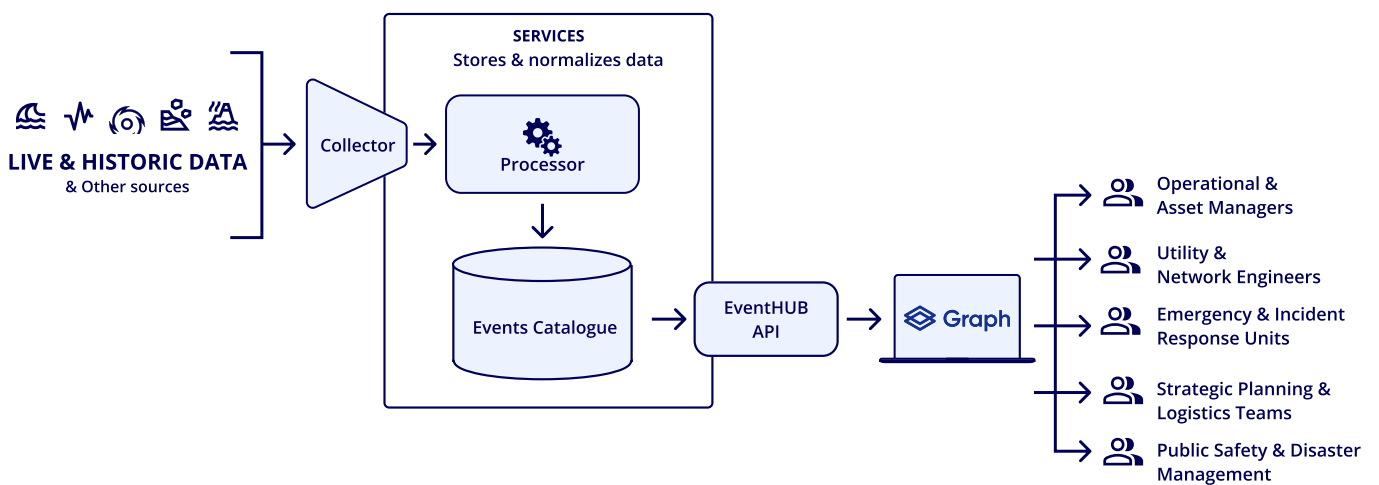
Product Overview

EventHUB is Quartile’s real-time data hub for capturing natural and environmental events, designed to provide organizations with instant, spatially enriched insights into risk incidents.

From the moment a hazard occurs, EventHUB enables users to visualize, analyze, and respond within the full context of their global assets, supporting critical workflows in risk management, infrastructure protection, and emergency response.

By seamlessly integrating with Quartile’s Geointelligence ecosystem, EventHUB turns live risk data into actionable insights, ensuring that every operational decision is powered by the most current geospatial intelligence available.

EventHUB at a Glance



Key Features and Capabilities



Live Hazard Overlay

Instantly intersect real-time or historical hazard footprints (e.g., flood zones, wildfire perimeters, storm paths) with your active asset locations and infrastructure data to assess exposure and initiate early response.



Smart Concentration Checks

Run automated spatial analyses to detect risk concentrations in impacted areas, supporting real-time impact estimation and resource management.



Response Prioritization

Prioritize maintenance and inspection schedules based on location, asset value, and hazard severity to streamline field operations and minimize downtime.



Historical Impact Analytics

Access curated, standardized event libraries to analyze past incidents, refine risk model assumptions, and improve long-term resilience strategies.



Universal Visualization

Display and interact with both live and historical event footprints within Graph, Quartile's cloud-based location intelligence application.



Unified Workflow

Pair EventHUB with Qarta™, Quartile's cloud-native Geointelligence engine, for advanced portfolio impact analysis and dynamic risk insights during unfolding events.



Standardized Data Delivery

EventHUB's REST API delivers clean, normalized GeoJSON outputs compatible with existing GIS platforms, risk engines, and in-house dashboards.



Audit-Ready Traceability

Maintains access to historical event data with full metadata and version history, supporting long-term risk analysis and audit-ready reporting.



Enterprise-Grade Security

Features secure authentication via encrypted JSON Web Tokens (JWTs) with full logging and auditability of all system interactions.

Global Event Coverage & Data Sources



EventHUB integrates data from authoritative providers, including Copernicus, ESA, NASA, USGS, and NOAA, covering over 4,000 international and national events:

International Event Coverage

Seismic Activity

Global cataloging and grading of event magnitude and impact (e.g., negligible, moderate, significant, severe, catastrophic loss) based on peak ground acceleration.

Flood Monitoring

Worldwide event footprint and depth metrics are monitored in real-time.

Wildfire Detection

Global tracking and grading of affected areas, including severity and partially burnt zones.

Atmospheric Phenomena

Global tracking of wind severity, speed, and international cyclone tracks.

National Weather Data Integration

Weather forecasts and observations

Real-time, high-frequency (every five minutes) updates on national weather conditions.

Active event monitoring

Timely weather event tracking and forecast delivery for rapid response and operational awareness.

What Sets EventHUB Apart

Real-Time, Asset-Aware Risk Insight

Gain immediate access to spatially enriched event data that integrates directly into your organizational workflows, empowering faster, smarter decisions at every stage of operation.

Clean, Normalized, Ready-to-Use Data

EventHUB provides standardized outputs designed for direct use in GIS tools, modeling platforms, and analytical dashboards, with no post-processing required.

Deep Integration with Quartile's Ecosystem

The platform works seamlessly with Qarta™ for advanced impact analysis and with Graph for intuitive visualization, ensuring a unified, efficient risk intelligence workflow.

Built for Global Demands

The system supports critical functions (from infrastructure monitoring to catastrophe response) while scaling effortlessly with your asset base and existing technology stack.

Industry-Leading Performance

EventHUB is capable of processing over 5+ million points per second on a single instance, remaining scalable, fast, and secure.

Who is This For?



Asset & Infrastructure Managers

Track real-time risks to your physical locations and minimize operational downtime after an event.



Operations & Field Response Units

Locate damaged infrastructure fast to coordinate repair teams and get early impact estimates.



Logistics & Supply Chain Analysts

Map delivery routes and warehouses against hazard-free zones to keep the supply chain moving.



Strategic Risk & Resilience Modelers

Use standardized event data to improve the accuracy of risk simulations and long-term planning.



Public Safety & Disaster Management

Get immediate, reliable geographic data to support rapid emergency response and resource allocation.



Utility & Network Engineers

Overlay live hazard zones onto your grid or network to identify at-risk sections and protect services.



Ready to turn real-time event data into actionable geospatial intelligence?

Connect with Quartile to explore how EventHUB can enhance your operational awareness, strengthen risk response, and integrate seamlessly into your existing workflows.

Reach out at contact@quartile.ch

Quartile is an innovative company founded to help organizations harness the power of geospatial information and drive informed decision-making for their businesses. We use cloud-native technology and are enterprise-ready, delivering geocontent in a fast, flexible, and secure way for the world's largest corporations. Businesses use our products and services to translate real-world geospatial information into actionable insights and reach their full geolocation potential.

