Integration Solutions for Data Streaming and IoT

Maximize the Value of Your Data With FME

Discover how FME® can help you connect to and process data streams, no matter where the data is from, and leverage real-time data as easily as any other data source.

- Integrate data from 450+ sources with data streams collected from sensors, devices, web services, and applications.
- Send and receive data streams via protocols including MQTT, Apache Kafka, cloud services, and more.
- Build and configure event-driven workflows to deliver real-time notifications.

FME for Sensor Data

Sensor data is being collected 24/7, so it's important to have an efficient integration system in place to ensure you can always be making data-driven decisions.

Connect to low-volume event streams or high-volume message streams with FME, and gain actionable insight with real-time data processing.

Learn more: **fme.ly/sensor-data**

Learn more: **safe.com/fme**
Get your free trial: **safe.com/trial**

How Our Customers Use FME:

The Weather Network

"Without FME Server we would have had to build a custom solution, and the estimate just for a prototype solution was six to seven months."

– Jim Saini, Pelmorex Corp

Pelmorex Corp

Pelmorex Corp. used FME to create the Pelmorex Lightning Detection Network (PLDN).

With FME's data streaming and data download services, lightning strike data from their sensors is restructured from non-spatial lat/long queries into a styled KML file. It is then made accessible via Google Earth™, an ArcGIS® Flex™ Viewer, email alerts, and more. This required only 3 weeks to set up, and now runs automatically.

Both real-time and archived strike data is immediately accessible for critical decision making to Pelmorex clients, including insurance companies, government agencies, transportation companies, and public utilities.

Known as "The Weather Network" & "MétéoMédia", Pelmorex is a Canadian broadcaster that produces leading multi-platform weather and traveler information services.

10,000 Customers Trust the FME Platform by Safe Software

Iowa DOT

"FME is the cherry on top the ice cream sundae that helps bring data together and customize it for your needs."

– David Runneals, Iowa DOT

Iowa DOT wanted to build APIs to make their real time public data more accessible, and open it to innovative applications.

The team created near-real time FME workflows that read traffic operations XML feeds like cameras, DMS, 511 events, and Waze. The Iowa DOT also created a custom API library along with Esri Road & Highways. These workflows transform the data through filters and formatters, and provide it to the public in a variety of usable formats including Oracle Spatial, ArcGIS Online REST Services, email, and JSON/XML.

Examples include: ArcGIS Online REST services and Feature Collections provide the ability to create map mashups with little effort; local TV stations use the KML data streaming service, powered by FME, to integrate plows, plow cams, and road conditions with their on-air weather software; and a transformation API called SkyFire, built on Oracle and Esri Roads & Highways, provides "One Call, That's All" returning results in XML or JSON.

Iowa DOT maintains over 9,400 miles of roadway and 4,092 bridges to serve the transportation needs of the state's citizens.

Grand Lyon, France

"Renault Trucks' Urban Freight Software is a good illustration of the win-win principle that we want to implement. The delivery will be able to improve the profitability of their tours and reduce their fuel consumption. For citizens it means less traffic and less pollution."

– Gregory Blanc-Bernard, Grand Lyon

Grand Lyon uses FME to make their city's data available to the public, empowering a variety of valuable services for citizens and businesses.

Internal city data and that from partners are compiled and made available in real-time on a public data portal. FME is easily scalable and provides an economically viable way to gather data from sensors, accident reports, data managers, web services, and distribute this time-sensitive information.

Originally designed to simply provide data to the public, the impact of this project has gone beyond, providing innovative companies in the city a technical foundation for developing new services which optimize their operations and ultimately benefit citizens and tourists. One example is Renault Trucks and the implementation of their Urban Freights software to help reduce fuel consumption.

Grand Lyon, France's second biggest city and capital of the Rhône-Alpes region, is situated at the crossroads of Europe's major lines of transport, at the heart of France between Paris and the French Riviera.

California Earthquake Authority

"FME Cloud may not run all year long if there are no earthquakes, or if there are a lot it could run often, and then not again for several months. But it's always available, checking the feed."

– Stephanie Halpin, California Earthquake Authority

California Earthquake Authority (CEA) needs to know immediately when an earthquake occurs with the potential to impact their policyholders.

The USGS collates earthquake data into its Shakemap dataset and offers an email notification service, which CEA monitors using FME Cloud. When new maps become available, FME Cloud triggers an FME Desktop workflow to read the Shakemap GeoJSON feed and identify if earthquakes in California are of significant magnitude to cause property damage. If so, the workflow extracts applicable shaking intensity data from relevant Shakemap Shapefiles, places it into an Excel report, and emails this to stakeholders, all within minutes of the earthquakes being detected.

The claims department now receives near real-time reports of any earthquakes that may damage policyholders' residences. By choosing to deploy FME technology in the cloud, CEA saves the costs of maintaining in-house servers and only pays for what they use.

CEA is a publicly managed, privately funded non-profit insurance company offering affordable earthquake coverage for residential properties in California.

SAFE SOFTWARE