

# TIBCO Cloud Data Streams

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## At a Glance

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TIBCO Cloud Data Streams software brings the power of real-time analytics to the cloud. It is TIBCO's zero-install, browser-based, cloud-based, wizard-driven, real-time streaming business intelligence (BI) platform. Now, everyone in your company can leverage the power of streaming data in minutes.

## Real-time Streaming Data Visualizations and Analysis

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There is no coding needed to get started, and the solution allows everyone in the company — from business analysts and business operations to domain experts and software developers to:

- Get critical information faster
- Use a wizard-driven, non-technical workflow to access streaming data and visualize it as part of a live dashboard
- Access and analyze real-time data without the help of developers, programmers, or data scientists
- Correlate live conditions with historical data through live exploration

TIBCO Cloud Data Streams software was built for enterprises that want to empower everyone in the company to easily use streaming data in their business intelligence platform. It's for those who want to consume in-motion, continuously generated data so they can make better business decisions in real time. The software gives users a faster time to actionable insights by enabling self-service visual analytics on real-time data.

## Capabilities

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### Real-time dashboards

Today's problems demand access not only to after-the-fact insights, but to the now and the future — for the ability to query the future. TIBCO Cloud Data Streams software allows you to populate your TIBCO Spotfire dashboards with real-time data and gain contextual awareness to generate faster, deeper insights.

### No code, easy to use

Wizard-driven TIBCO Cloud Data Streams connectivity allows you to connect natively and seamlessly to your data streams. It also will automatically discover all the topics on the given bus and present you with options to choose from. There's no need to know exactly the topic, you can just browse what is actively being published.

### Real-time and historical data

With TIBCO Data Streams and Spotfire software, you can have live exploration of streaming and historical data to gain context for your real-time insights.

### TIBCO Cloud and SaaS

TIBCO Cloud Data Streams software is in the TIBCO Cloud environment, meaning zero install. Everything is done in the web browser, so it is super easy to start. Also, it falls under what we call here at TIBCO #bettertogether, which means it works seamlessly with the entire TIBCO Cloud ecosystem, such as TIBCO Cloud Messaging and Spotfire software.

### Connect natively to streaming data sources

TIBCO Cloud Data Streams software can connect to multiple streaming data sources. It can even connect to multiple streams at the same time and bring them together for analysis in the Spotfire platform. The software connects natively to Apache Kafka, MQTT, and TIBCO Messaging solutions. It also gives users the ability to bring CSV files and create a feed simulation for testing and demonstration.

## How It Works

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TIBCO Cloud Data Streams software connects natively to streaming data sources: Apache Kafka, MQTT, and TIBCO Messaging software. Its wizard will automatically discover all the topics on the given messaging bus and present you with options to choose from in the form of a list. After you define the topics and schema, it creates a live data table.

After the data stream is created, the software can connect seamlessly to Spotfire analytics, where you can use the live data table to create visualizations. In Spotfire software, you can view this data stream alongside historical data or other streaming data, create aggregations, and even apply data science.

## Benefits

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### **Accelerate analytics with real-time insights**

Use dynamically interactive live streaming dashboards with embedded data science and machine learning models to lead to real-time awareness and action. Create advanced AI-driven streaming analytics, adjust to changes in a dynamic market, and react to volatile conditions.

### **Democratize development and use of real-time data**

Empower teams with real-time awareness and self-service analytics in a super easy, ultra-fast way. Getting insights from streaming data sources can be difficult, and even more so without a coding background. With a wizard-driven, no-code platform, you can provide access to real-time data without the help of developers or programmers. Give your users the ability analyze real-time data to spot issues sooner and fix them faster using better, fresher data.

### **Generate higher value insights with historical context**

Analyze emerging patterns and outliers in real-time data alongside historical data for high-value insights and new opportunities.

### **Lower the cost of deployment, infrastructure, and maintenance**

With a streaming platform in a hosted Cloud environment, real-time data is now worry-free. No installation, deployment, infrastructure, or even maintenance requirements for you because everything is now in the cloud. TIBCO takes care of everything.

### **Connect to real-time data in minutes**

Get critical, real-time information in minutes with a native connection to streaming data sources.

## Use Cases

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TIBCO Cloud Data Streams software is the first BI platform in the industry with self-service streaming BI capability, bringing BI to completely unserved markets like drilling, risk, trading, and marketing operations, and others.

Whenever there is a need to respond quickly to frequent changes and compare real-time and historical data, TIBCO Cloud Data Streams and Spotfire software enable everyone in the company to perform streaming analytics in a SaaS environment. For example, instant insights could predict and prevent process or production problems before they actually materialize, or detect new market opportunities before competitors see them and take advantage. Fast insights allow your business to stay ahead of the competition and ahead of the curve.

Data streams use cases are endless. Think about the data you have that changes frequently: data on sales leads, transactions, vehicle location, equipment status, wearable devices, social media, customer calls, complex manufacturing environments, kiosks, websites, customer orders, chat messages, supply chain updates, and more. Next, think of questions that start with the words “tell me when,” or “tell me why.” They can now be answered in real time, thousands or even millions of times a day.

Industry use cases include:

- Manufacturing: High-tech yield optimization
- Logistics: Real-time track and trace
- Retail: Continuous live sales operations for peak sales (Black Friday, Cyber Monday), inventory management, sentiment analysis, and alerting
- Energy: Wind turbine operations and maintenance, oil and gas drilling, pumping, predictive analytics
- Transportation: Airport ground staff operations, servicing, and scheduling
- Finance: Fraud detection
- Capital Markets: Trade flow monitoring and surveillance, FX liquidity analysis, risk management, P&L management
- Cross-industry: IT infrastructure monitoring

## Summary

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The TIBCO Cloud Data Streams zero-install, cloud-based, wizard-driven, real-time streaming BI platform lets you leverage the power of streaming data in minutes, with no code, and easy deployment and infrastructure.

Along with Spotfire software, it provides simultaneous historical and real-time data using an ultra-fast continuous query processing engine. By adding historical context to streaming data, you can more easily and quickly detect emerging trends and patterns. TIBCO Cloud Data Streams users can instantly compare current events to past trends, predict future conditions, and take action when it matters most. In real time!

Continuously analyze the present, compare it to the past, and predict the future with TIBCO Cloud Data Streams software. Learn more at <https://www.tibco.com/products/tibco-spotfire/real-time-analytics>.



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