

## Our Data Streaming Expertise In Manufacturing

Elevate Your Real-Time Data Streaming with Improving & Confluent



### Challenges of Data Streaming In manufacturing Industry

Manufacturers face mounting pressure to modernize operations by replacing manual processes with real-time, data-driven systems that improve operational visibility, efficiency, and responsiveness. According to McKinsey, while many industries have embraced analytics, manufacturing operations often lag due to the complexity of integrating sensor and equipment data. Yet those who succeed gain a significant competitive edge through predictive maintenance and real-time optimization. Traditional data collection methods fall short in delivering the speed and accuracy required for today's complex production environments. By leveraging platforms such as Confluent Platform or Confluent Cloud, manufacturers can implement scalable, event-driven architectures that unify data from IoT devices, MES systems, and factory equipment. Our expertise in this industry stems from developing real-time data pipelines that can transform manufacturing by reducing downtime, enhancing throughput, and enabling smarter decision-making.

### Why Trust Improving as Your Data Streaming Partner?

At Improving, we are a **Confluent Elite Systems Integrator** and Confluent has certified Improving as a Premier Partner. Our goal in partnering with Confluent is to deliver enterprise data solutions that help you easily identify and use quality data via real-time data streams.

Our strong partnership with Confluent enables us to deliver resilient event-streaming architectures that address the unique demands of manufacturing firms. In our work with clients in this sector, we have developed a real-time data integration platform that consolidated siloed systems, modernized legacy infrastructure, and improved data accessibility across digital channels. By leveraging Confluent's managed Kafka platforms, we have helped clients enhance operational efficiency, reduce third-party data costs, and deliver a more responsive user experience, demonstrating how real-time data streaming can drive measurable impact in manufacturing.

#### Our Data Streaming Services & Solutions on Confluent

We offer a comprehensive suite of services leveraging Confluent platform, Confluent Cloud, and Flink to transform your real-time data processing capabilities:

- **Integration & Migration:** Seamless integration and migration services for a smooth transition to Confluent platforms, ensuring **99.9% uptime** and **80% reduced downtime**. This reliability allows your organization to utilize and act on your data at any time.
- **Consulting:** Expert guidance to optimize your Confluent setup, including strategy planning, architecture design, and performance tuning, resulting in **30% cost reduction** and **95% client satisfaction**.
- **Development & Solutions:** Custom Confluent solutions and connectors tailored to meet your unique business requirements, resulting in **10x the data processing speed** and **increasing efficiency by 50%**.
- **Real-Time Data:** Use real-time data for valuable actionable insights and improved decision-making, with faster reporting speed and better data accuracy.
- **Training:** Training programs to help your team gain Confluent expertise and skills.



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## Elevate Your Real-Time Data Streaming with Improving & Confluent

### Our Track Record of Success | Medtronic

In partnership with Medtronic, we modernized their medical device manufacturing operations by replacing manual, paper-based data collection with a real-time data pipeline powered by Kafka and Confluent. This solution enabled seamless ingestion of data from IoT devices and Manufacturing Execution Systems (MES) using MQTT, providing instant visibility into production metrics and significantly improving operational efficiency. Our team developed Kafka Streams applications with embedded business logic to automate reporting, support predictive maintenance, and ensure consistent data flow across systems. The architecture also integrated with tools like Ignition and Power BI to visualize equipment performance and production trends. As a result, Medtronic reduced downtime, eliminated manual entry errors, and optimized production throughput—while laying the foundation for scalable, site-wide data standardization. This project showcases our ability to deliver robust, real-time data streaming solutions that drive measurable impact in complex manufacturing environments.

### Improving | Your Trusted Technology Consulting Partner

As a **Confluent Elite Systems Integrator**, we are at the forefront of data streaming and data engineering through our technical design and implementation for cloud, on-premises, and hybrid solutions. Our collaboration with clients extends beyond implementation; we empower them with the knowledge and tools to maintain their Kafka and Flink deployments. Access to data alone is not enough to make informed and impactful data-driven decisions; as technology and business leaders, you need to ensure you are using reliable, accurate, timely, and relevant data to make informed decisions.

The amount of data organizations have is significant and will only continue to grow in volume. Having a solution to sort through and identify useable data is essential for your organization’s success. Confluent provides you with enriched, trustworthy, and contextualized real-time data anywhere and at scale.

With our track-record of success, Improving can help you leverage Confluent Platform, Confluent Cloud, and Flink to transform, empower, and elevate how your enterprise executes its data strategy.



### Our Data Streaming Technology Partners

At Improving, our partnerships with technology and cloud leaders such as Confluent, AWS, Google Cloud, and Microsoft enable us to deliver best-in-class, secure, scalable, impactful and innovative solutions across a multi-cloud environment. Our partner collaborations ensure we provide innovative, reliable, efficient and high-quality services to meet our clients' broad range of needs. Through our partner-driven projects, we have delivered exceptional business value through digital transformations backed by leading data, AI, software, and cloud technologies.

