As the volume and speed of data increases in financial services, so does the need to evolve the infrastructure that supports it. A rising trend in responding to the changing landscape is the adoption of streaming data as a way to operationalize high volume, data-driven transactions. Streams of data from trading desks, mobile banking, and core infrastructure provide opportunities for value creation and protecting the franchise. A streaming platform acts like a digital nervous system, both distributing data out to every corner of your organization, while centralizing that data to create a single source of truth for all systems.

**Financial Services Use Cases:**

**Growth Initiatives**

Confluent platform implements customer 360 and other growth initiatives within a single framework. It processes data from all your client-facing systems, stores it, then distributes those messages to other systems, giving you insights into customer behavior and ability to respond to it in real-time.

**Risk Platform Evolution**

Regulations such as BCBS 239 and CCAR along with disparate risk systems have forced banks to invest in their risk infrastructure. These investments are producing competitive advantage through more real-time views of market, credit and liquidity risk across a global portfolio of products.

**Regulation**

The centralized streaming platform enables a stronger ability to execute global and regional compliance. A raw event pipeline is disaggregated into regional and global event pipelines that can be used to feed data stores later used for audit.

**Digital Replatforming**

Save millions of dollars by reducing mainframe utilization, improving developer efficiency and event driven services, and creating a vendor-independent bridge between clouds and your data centers.
Application Architecture:

Stream processing layer: To make data infrastructure simpler, Confluent Platform includes a stream processing layer that allows your developers to manipulate your real time streams within the actual stream - there's no need for an additional framework that requires its own cluster of machines. The layer supports developers who write in Java or SQL.

Schema registry: Enforce data formats from a central location, while maintaining a version-control awareness. When any application or system is publishing messaging to thousands of other destinations, your team can be sure that those messages can be successfully read by the consumers, preventing errors and mistakes at a global scale.

Exactly-once semantics: EOS ensures the delivery of each message exactly once, making the design of systems with this requirement dramatically simpler.

Single message transform: Allows your developers to remove personally identifiable information (PII) from a message before it enters the data pipeline. This is an essential feature for compliance to privacy regulations around the world.

Legacy Integration: To allow offloading data from legacy systems, Confluent Platform includes enterprise JMS client and connector. Stream the events you need out of the existing systems as you are transforming your business.

Operations:

Replicator: The Confluent Platform provides real-time multi-data center replication of your entire streaming platform cluster. It can be used to maintain synchrony between multiple clusters or between entire data centers, or to replicate regional data centers to a global data center, for instance for global analytics applications. In or out of the cloud.

Auto data balancer: Improves performance by automatically re-balancing the computation load on your cluster, while preventing downtime caused by human error in that process.

Confluent Control Center: Meeting SLAs and speeding RCAs are made possible with the industry's leading streaming platform monitoring tool. This is especially important when operating a Kafka data pipeline in support of mission-critical workflows, applications, and data stores that are common in financial services.

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Which streaming platform is right for you?

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