Share the power of data in motion across your organization safely and confidently with the only governance solution designed for the intricacies of streaming data. Confluent’s Stream Governance suite establishes trust in the real-time data moving throughout your business and delivers an easy, self-service experience for more teams to discover, understand, and put these streams to work. Expand beyond expertise-silos and accelerate data-in-motion initiatives to establish a central nervous system of real-time data within your business without bypassing controls for risk management or regulatory compliance.

Why Stream Governance?

With the sharp rise of real-time data, Apache Kafka, and event-driven systems, the need for organizational governance over data in motion is growing fast. While tools for building and maintaining long-term, compatible event streams like Schema Registry have been available for some time, the ability to safely and easily share these streams across teams for more widespread use has not. This need is felt most by businesses deploying distributed, event-driven microservices built by small, disparate teams of streaming data experts.

Stream Governance provides businesses with a modern data governance solution, built for data in motion, that allows them to operate at scale around a central nervous system of real-time data. Individuals across teams have access to the data they need through self-service discovery in a system with the quality, security, and privacy controls required to ensure long-term data compatibility, risk management, and regulatory compliance. When distributed teams can explore, understand, and trust data in motion together they can harness its full value. Businesses now have the key to fostering the collaboration and knowledge sharing necessary to become an event-centric business while remaining compliant within an ever-evolving landscape of data regulations.

Features

**Stream quality**
Set and enforce the rules by which the entire system operates in order to control what data gets in and what data does not—all in the spirit of maintaining high data integrity

**Stream catalog**
Unlock the full value within your data in motion with self-service tools for data discovery that allow teams to classify, organize, and find the high-quality event streams they need

**Stream lineage**
Review and comprehend event streams easily with interactive, end-to-end maps provided with single-click export for documenting regulatory compliance
Deliver trusted, high-quality event streams to the business

Confluent’s stream quality tools enable teams to deliver a scalable supply of trusted event streams throughout the business, enabling reliable delivery of mission-critical applications, confident decision making, and a simplified design for data standards.

**Schema Registry** allows teams to define and enforce universal data standards that enable scalable data compatibility while reducing operational complexity. Avro, JSON and Protobuf serialization formats are supported.

**Schema Validation**, enabled at the topic-level, ensures broker/registry coordination by verifying that schemas tied to incoming messages are both valid and assigned to the specific destination topic in order to publish.

Standardizing around well-defined and agreed upon schema structures allows teams to develop resilient data-in-motion pipelines prepared for safe, compatible evolution over time. And with the Schema Management UI, users can easily learn about all schemas that exist, how they are defined, and where they are used.

Increase collaboration and productivity with self-service data discovery

Available through both the Confluent Cloud UI and API, **stream catalog** allows users across teams to collaborate within a centralized, organized library designed for sharing, finding, and understanding the data needed to drive their projects forward quickly and efficiently.

Built and organized through automatic metadata collection, this catalog includes topics, schemas, fields in schemas, clusters, connectors, and more. It’s like a digital library for data in motion allowing any user—experienced with Kafka or not—to search for what they need, find what’s already been built, and put it to use right away.

With custom classifications and tagging, teams can constantly increase the value of the catalog by adding contextual, business-specific details to data—for example, by labeling fields “PII” or “Sensitive”.

Understand complex data relationships and uncover more insights

Moving forward with updates to mission-critical applications, answering questions on important subjects like data regulation & compliance, or kicking off a new project with sensitive data requires an easy means of comprehending the big picture journey of data in motion.

**Stream lineage** provides a GUI of event streams and data relationships with both a bird’s eye view and drill-down magnification for answering questions like: Where did data come from? Where is it going? Where, when, and how was it transformed? Live metrics and metadata inspection embedded directly within lineage graphs enables teams to learn quickly and make more informed decisions.

And with full insight into where and how their data is moving, including single-click export of end-to-end streams, businesses are able to simplify data reporting for audit purposes and increase visibility during critical procedures like workload migrations.

Running a modern bank serving fast growing enterprises requires data in motion we can trust. **Schema Registry allows us to provide customers with reliable, real-time experiences for tasks like loan processing while we maintain focus on furthering innovations. We’re excited about new discovery capabilities within Stream Governance which will enable us to expand data in motion across teams and operate like a truly event-centric business.** —Andreas Piefke, Head of Cloud Architecture, Judo Bank