

# Streaming Integration for Google Cloud Spanner

Spanner needs an enterprise-grade streaming data integration solution that complements its global scalability, transactional consistency, and high availability advantages. The Striim® data integration platform continuously ingests business-critical data from a wide range of cloud or on-premises source systems and continuously moves to Cloud Spanner. Striim enterprise-grade platform includes end-to-end capabilities for real-time ingestion, in-flight processing, and continuous delivery with sub-second latency. With real-time data feeds from the Striim platform, high-value transactional and operational workloads can thrive on Cloud Spanner.

Available on the Google Cloud Platform as well as on premises, Striim comes with change data capture (CDC) capabilities for non-intrusive data ingestion from major relational databases. It ingests real-time change data from Oracle, SQL Server, HPE NonStop, MySQL, PostgreSQL, and MariaDB without impacting the performance of the source systems. Striim also moves data from log files, message queues such as Kafka, sensors, Hadoop, and NoSQL databases in real time.

## Online Database Migration to Cloud Spanner

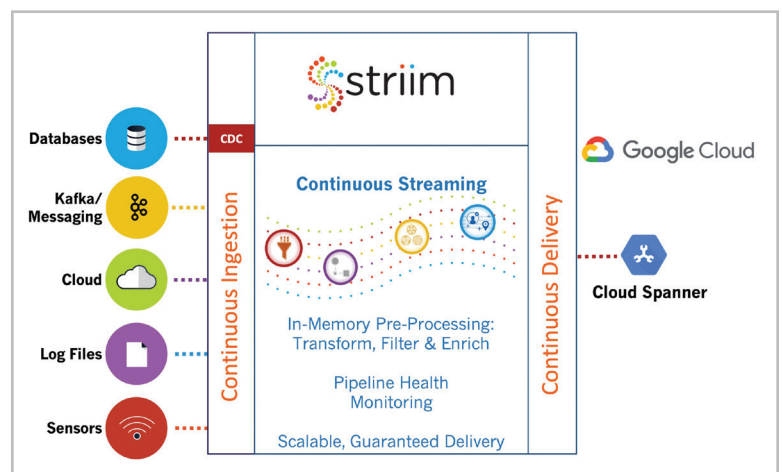
With real-time data synchronization capabilities, Striim enables Cloud Spanner customers to achieve a seamless, online database migration. Since the legacy database remains fully active for transactions, there is no database downtime or time limit for testing and verification of the new environment before the eventual database switchover. Striim offers continuous pipeline health monitoring and delivery verification to prevent data loss for both one-time migration and on-going data integration solutions.

## BENEFITS

- Ingest real-time data for operational reporting and share up-to-date Cloud Spanner data with other services
- Comply with regulations and requirements around data privacy and security via in-flight encryption, data masking, and filtering
- Migrate databases with minimal risk, without downtime or data loss with real-time data pipeline monitoring and alerts
- Easily offload operational workloads to the cloud by moving data in real time and in the desired format

## Continuous Integration to and from Cloud Spanner

Striim's offering is not limited to one-time migration or unidirectional data movement. The Striim platform enables continuous real-time data pipelines from existing on-premises and cloud data sources for off-loading operational workloads. Striim can also



Striim offers real-time data integration from a diverse set of sources

capture data from Cloud Spanner in incremental mode with low latency to support downstream services and applications that depend on timely data access.

## Process Data in Flight

Using SQL-based continuous queries, Striim performs in-flight data processing such as filtering, transformations, aggregations, masking, encryption, and enrichment of streaming data with reference data before delivering with sub-second latency to Cloud Spanner. The data is continuously delivered in the format the end-users need.

## Use an Enterprise-Grade Solution

Striim enables Cloud Spanner customers to move high-volume, high-velocity data in a secure and scalable way. The Striim platform offers built-in security, high availability, delivery validation, and pipeline monitoring essential to support mission-critical environments. Its distributed, scale-out architecture supports extreme and varied data volumes and velocity. Built-in checkpointing and exactly-once-processing ensure no events are missed, or erroneously duplicated.

## Offload Operational Workloads

Striim enables customers to rapidly build highly reliable and scalable real-time data pipelines into Cloud Spanner. By continuously ingesting high-volume, high-velocity enterprise data from on-premises and cloud data sources in real time, users can move business-critical workloads to Cloud Spanner and drive their business transformation on the Google Cloud.

## Accelerate Time-to-Market

Striim speeds time-to-deployment with pre-built data pipelines, out-of-the-box wizards for configuration and coding, and a drag-and-drop UI with transformer components that allow building data pipelines without coding. Its SQL-based language for data processing simplifies the process to develop and modify integration applications as business needs change and make application development more efficient.

Striim can be deployed in the cloud, on-premises, or in a hybrid topology to fit organizations' evolving needs for data modernization to help drive digital transformation.

## WHY STRIIM?

- Continuous and real-time streaming of data with transaction integrity
- Designed for high-volume, high-velocity data flows
- Event guarantees with non-intrusive change data capture from databases
- Low-latency data capture from Cloud Spanner
- Enterprise-grade with built-in security, scalability, and reliability features
- In-flight processing via built-in cache before delivery
- Quick and easy to deploy via SQL-based queries and wizards-based UI

For more information, or to schedule a demo, please contact the Striim team at [info@striim.com](mailto:info@striim.com).