Streaming Integration to Azure Cosmos DB

Continuous, Real-Time Data Movement with In-Flight Processing

Businesses that want to make the most of Cosmos DB's globally-distributed, multi-model database service, need to continuously feed real-time operational data from a wide-range of on-premise and cloud-based data sources.

What is Striim?

The Striim software platform offers continuous, real-time data movement from enterprise document and relational databases, sensors, messaging systems, and log files into Azure Cosmos DB with in-flight transformations and built-in delivery validation to support real-time reporting, IoT analytics, and transaction processing.

Why Leading Enterprises Use Striim

- **Real Time**: Continuously moves data from diverse sources with sub-second latency

- **Non-Intrusive:** Collects real-time data from production systems with negligible impact

- **In-Line Transformations**: Processes data-in-motion before delivery with SQL-based language

Offload Operational Reporting

- Move real-time unstructured and structured data to Cosmos DB to support operational workloads including real-time reporting

- Continuously collect data from diverse set of sources such as Internet of Things (IoT) for timely and rich insight

Accelerate and Simplify Processing

- Perform filtering, transformations, aggregation, and enrichments in-flight before delivery to Cosmos DB

- Avoid adding latency via stream processing

- Easily convert structured data to document form

Ease the Cosmos DB Adoption Process

- Use phased and zero downtime migration from MongoDB by running them in parallel

- Continuously visualize and monitor data pipelines with real-time alerts

- Prevent data loss with built-in validation

How Striim Works to Achieve
Business Benefits

Low-Impact Change Data Capture from Enterprise Databases

- Non-stop, non-intrusive data ingestion for high-volume data

- Support for databases such as Oracle, SQL Server, HPE NonStop, MySQL, PostgreSQL, MongoDB, Amazon RDS for Oracle, Amazon RDS for MySQL

- Real-time data collection from logs, sensors, Hadoop and message queues to support rich and timely analytics

Continuous, In-Flight Data Processing

- In-line transformation, filtering, aggregation, enrichment to store only the data you need, in the right format

- Uses SQL-based continuous queries via a drag-and-drop UI

Real-Time Delivery with Built-In Monitoring

- Continuous verification of source and target database consistency

- Interactive, live dashboards for streaming data pipelines

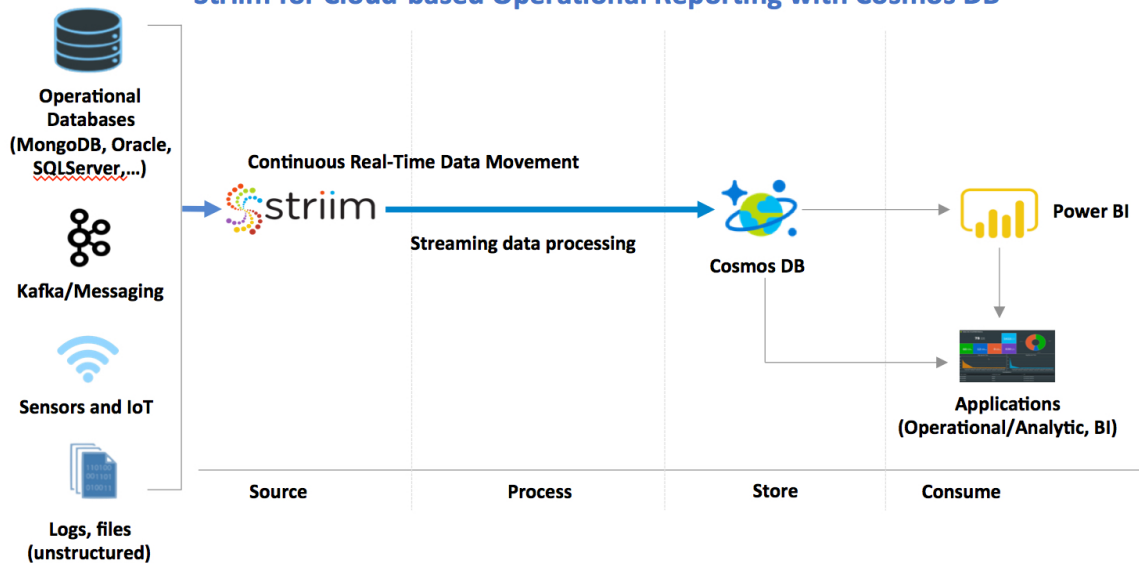- Real-time alerts via web, text, email

Streaming Integration to Azure Cosmos DB

An enterprise-grade, template-based cloud service to rapidly deploy real-time data pipelines for your mission-critical applications.

An offer to get you started

- Striim streamlines your transition to Azure and increases the value you gain from cloud services.

- Get started rapidly by following the simple instructions.

- Contact us at info@striim.com or your Azure account executive to sign up for a proof of concept to move real-time data to Azure Cosmos DB.

Striim for Cloud-based Operational Reporting with Cosmos DB

Operational Databases (MongoDB, Oracle, SQLServer,…)

Kafka/Messaging

Sensors and IoT

Logs, files (unstructured)

Continuous Real-Time Data Movement

Streaming data processing

Cosmos DB

Power BI

Applications (Operational/Analytic, BI)

Source   Process   Store   Consume

Why Striim for Azure Cosmos DB?

With a broad set of supported sources for modern, streaming data integration at extreme scale, Striim enables you to use real-time operational data in your Azure Cosmos DB environment in the desired format. With Striim you can quickly start offloading operational workloads to Cosmos DB without database downtime or risk.

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