

The Striim Platform: Zero Data Loss

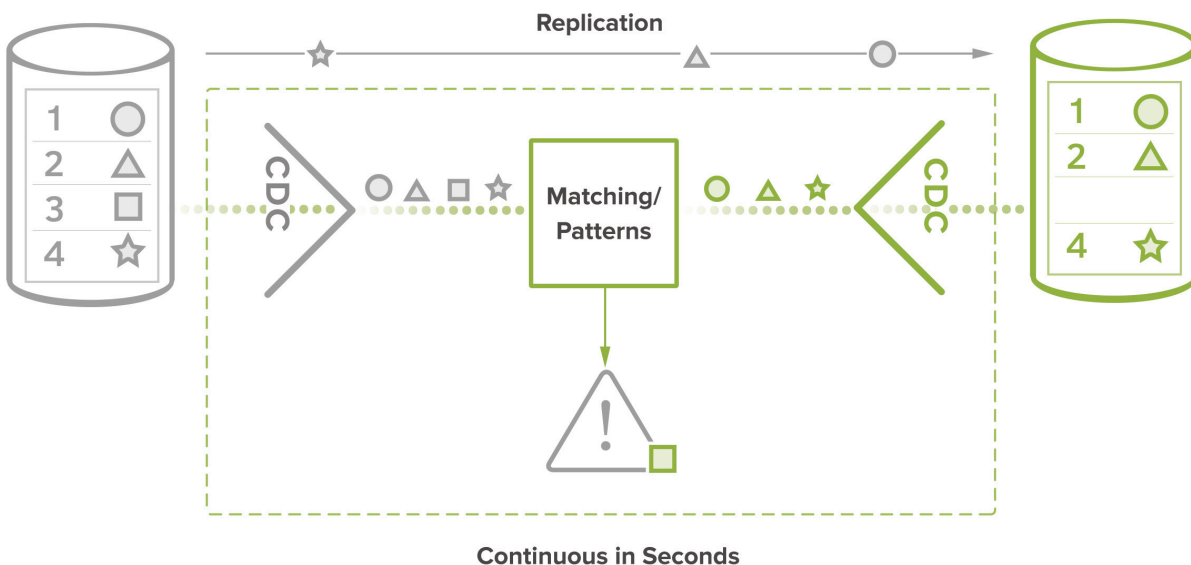
As data volumes and complexity increase, so does the potential for errors, and the extent of impact. It is critical for secondary systems to be reliable, accurate, and up-to-date. There is no room for data loss.

Today, data loss is most often addressed via manual audits of the database, or via packaged solutions in batch mode. Both of these approaches introduce significant cost and extreme latency.

Striim offers a pre-built application that enables a non-intrusive, real-time verification mechanism to continuously and incrementally monitor replication solutions, ensuring full replication of all required data between databases. Comparisons happen the instant the data is born, and at the transaction level.

HIGHLIGHTS

- **Identify** missing transactions
- **Drill down** into transaction details
- **Show** lag time between all targets and data replication tracking table
- **Classify** data replication apply errors
- **Scale** to handle growing numbers of transactions and users.





TRANSACTIONAL DATA REPLICATION

Transactional data replication moves data across databases with a high degree of reliability, providing continuous availability of mission-critical systems. However, misconfigurations, environmental factors, application and human errors can lead to inconsistencies and data loss.

There are solutions designed to spot inconsistencies between databases. Their shortfall is that they run in a batch mode – often only after hours or on weekends – and so can only spot problems hours or days after they occur. Moreover, they cannot spot intermediate inconsistencies. This causes problems that can compound as subsequent transactions update inconsistent states of database tables.

Depending on the nature of the data, data loss can have catastrophic consequences. In many industries it is essential that data inconsistencies be identified immediately to avoid severe operational and financial impacts.

ENSURING ZERO DATA LOSS (ZDL)

The Striim ZDL application uses a secondary change data capture (CDC) mechanism to capture transactions being committed on a source database that can be seen by the data replication solution and moved to the target. It also captures transactions that the data replication solution is applying to the target.

It then checks that every transaction committed on the source is also committed on the target, matching and providing the lag between the two. If any transaction is not committed on the target within a configurable time period, that transaction is logged and an administrator alerted. This solution works for single and bidirectional active/ active replication.

Striim provides immediate notification if a transaction is missed, allowing DBAs to fully synchronize the database before operations continue and major problems occur. The solution further delivers root-cause information by indicating exactly which transactions are missing, and which tables are affected.

Striim's Zero Data Loss solution enable companies to be able to fully rely on their secondary systems when a primary system fails. DBAs can identify inconsistencies the instant they occur – before decisions based on missing data exacerbate the problem – helping ensure their company meets or exceeds SLAs.

For more information, or to schedule a free trial, please contact us at info@striim.com or at +1 (650) 241-0680.