

ATTUNITY STREAM FOR VSAM

A CHANGE DATA CAPTURE SOLUTION

Attunity Stream for VSAM captures and delivers only the changes made to VSAM data sources. Using low impact change-data-capture technology, companies can move operational data efficiently and in real time.

Real-time and Efficient Data Integration using Change Data Capture

Every organization needs to move data in order to maintain data integrity, synchronize systems, and build integrated data stores such as data warehouses (DW) and operational data stores (ODS). In order to do so, records need to be sourced from one system and moved into another. In some cases, data also needs to be processed, transformed, cleansed and integrated.

With the ever increasing demand from business users for real-time information, IT teams are challenged with architecting data integration solutions that can deliver data on time, and in an efficient manner. These solutions often try to address the following questions:

- What is the business impact of using fresh, timely information?
- How to deal with growing data volumes and shrinking batch windows?
- Can we eliminate batch windows to cut costs or better utilize resources?
- What is the risk and business impact if nightly batch processes fail?

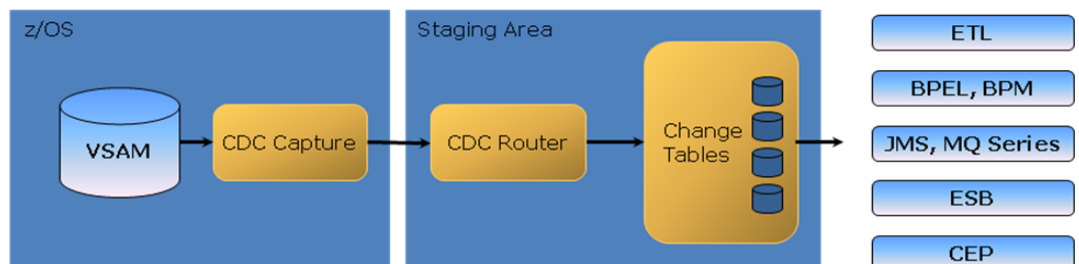
Change Data Capture (CDC) addresses these questions by capturing and processing only the changes made to enterprise data sources. **Attunity Stream for VSAM** captures and delivers only the changes made to VSAM data sources. It extends ETL, data integration, EAI, or home-grown applications, allowing businesses to:

- Extract and source VSAM data efficiently and in real-time
- Reduce or eliminate the batch windows required to move VSAM data
- Support real-time business intelligence and data warehousing
- Synchronize VSAM with other data sources
- Enable event-driven processing and business event capture

Benefits

- Reduce data latency and provide fresh data to decision makers
- Eliminate systems downtime and free up processing time – by reducing or eliminating the batch windows used for moving data
- Reduce the risk of not completing nightly batch data processing
- Dramatically reduce the required resources for ETL
- Proven to work with virtually any ETL tool in the market
- Avoid any impact on the source VSAM data by using a non-intrusive CDC technology

Attunity Stream for VSAM



Key Capabilities

- Log-based change data capture
- Change record filtering
- SQL-based change delivery for ETL and data-oriented applications
- XML-based change delivery for EAI and message-oriented applications
- Simple installation and fast configuration using wizard-based GUI
- Reliable delivery and recovery
- Easy to use

Supported configurations

- VSAM Batch
- VSAM under CICS

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Components of Attunity Stream for VSAM

VSAM Change Data Capture Agent

The Attunity change capture agent for VSAM is a 'live' software component that is responsible for the identification and capture of changes to VSAM data. The agent processes changes from MVS logstreams for minimal impact on the system. The logstreams can be created by CICS or by using an Attunity logger.

Staging Area

The CDC staging area improves performance, flexibility and recoverability by providing a place to store changed data and to apply intelligent filters and services. The staging area offloads processing from the data server, makes it easy to support multiple change consumers, and provides better control of the lifecycle of changed data.

CDC Consumer Interfaces

The CDC consumer interfaces allow ETL, EAI, and homegrown applications to easily consume changed records. Using standards-based APIs, applications can poll changes using SQL, or listen and wait for changes using XML-based messaging.

Attunity Studio

The Attunity Studio is a GUI for configuring and managing CDC solutions. Graphical and wizard-based, the Attunity Studio provides a productive environment for configuring VSAM CDC, deploying solutions, and managing them in production.

Frequently Asked Question (Technical Q&A)

How intrusive is the solution to my VSAM data?

Attunity Stream is designed for minimal intrusion. It leverages CICS-generated logstreams and if such do not exist, it provides a light logger that captures changes into a logstream. The remaining CDC processing is done by using the logstream and without any impact on the system.

What does "change streaming" mean?

Streaming changes means that data is moved and processed in small chunks, even a record at a time. Change streaming introduces the concept of a 'stream position' that identifies the last change record that was successfully processed and the current location in the 'stream of changes'.

Is the solution fault resilient? How does it recover from failures?

As data moves from one machine to another, failures can sometime happen. CDC solutions are able to recover from any failure by managing "check points" based on stream positions. This means that in any failure, the system can pick up and continue working from the last successfully processed record.

How does the solution deal with VSAM metadata and its non-relational data structure?

Attunity provides Metadata Import Utilities to harvest VSAM metadata from COBOL copybooks. In addition, it provides flexible and automated mapping of non-relational structures (e.g. arrays) to relational metadata models, using virtual tables or flattening models.