

Data Sheet

Tangible Benefits

- Eliminate business disruptions due to batch data processing errors
- Deliver fresh data to decision makers and business processes
- Keep existing applications or databases -- no need to modify
- Better performance and reliability than hand coding
- Works with and complements most ETL tools

Key Features

- Capture changes once and publish them to many applications
- Support many data sources on many platforms
- No intermediate staging of data required
- Change record filtering and in-line transformation support
- XML-based change delivery for EAI and message oriented applications

ETI Change Data Capture

On Demand Access to Business-Critical Data

Overview

Business executives are demanding unprecedented access to accurate and timely information for quick decision making and high-speed operations. Information integration increasingly requires near real-time access in order to meet the business requirements. And as information volumes grow or business operations move to 24/7 processing, current methodologies such as batch processing may no longer meet these new demands.

ETI Change Data Capture (CDC) meets modern demands by integrating data from a wide variety of legacy and transaction systems and managing the process so that the data is easily accessible when and where the organization needs it. This capability allows you to keep your source and target systems much more closely in sync than using full data extracts. ETI CDC provides a broad range of support for mainframe, midrange, packaged application, proprietary system and relational data sources.

Depending on specific business project needs, organizations can choose ETI CDC to address:

- Business event reporting and monitoring
- Operational data stores
- Data migration/consolidation
- Data warehousing
- Any project requiring an “always on” mode that captures data changes as they occur and then makes them available wherever needed for near real-time delivery.

Non-invasive Architecture

The ETI CDC design uses a non-invasive architecture that eliminates the need to change applications and databases as you implement a CDC process. This significantly reduces the cost, time and skills required to achieve near real-time access to production data sources. ETI CDC provides a comprehensive architecture that manages all elements of the change data capture process starting with process design, data capture, change data administration and recovery automation. Leveraging the native database methodologies for capturing changes yields significantly greater throughput than non-native approaches.

Mainframe and midrange expertise

ETI has 15 years of high performance data movement experience with mainframe systems and their associated data formats. Our experience with moving transaction-consistent data in near real-time between centralized databases/data sets and distributed databases keeps disparate databases synchronized while maintaining one image of data among applications. To ensure complete synchronization, only committed transactions based on units of work in the source system are processed. ETI CDC also manages the distribution, persistence and condensing of change data for all committed transactions.

For mainframe-based systems that provide logging facilities, ETI CDC features system-specific methods for capturing change, such as DB2 journaling, vendor-published exits and logging APIs. For data management systems such as VSAM that provide no logging facility, ETI CDC utilizes the transaction exits to capture changes.

For relational databases, ETI CDC uses a logging methodology as the source for transactional change data. Most relational database systems provide programming interfaces into their logs. For example, Oracle provides an interface called LogMiner into the transaction logging system, so ETI CDC leverages LogMiner as the source for changes. There is no need to replicate this data, since it is already stored in the Oracle system logs.

No Coding Required Accelerates Deployment

ETI CDC provides a full visual configuration GUI that requires no manual coding. This advanced GUI eliminates the need for organizations to manually code data extraction programs, reduces development and maintenance costs and accelerates deployment.

With its visual, no-coding methodology, ETI CDC provides an end-to-end solution that lets developers quickly define the records they want to capture, produces rapid change management as fields are optimized, and, if a change event fails, ETI CDC supports full recovery.

Example Data Sources

- IMS DB
- VSAM CICS
- VSAM Batch
- DB2 Z/OS
- DB2 UDB
- DB2/400
- Oracle DB
- Microsoft SQL Server

Platform Support

- Mainframe z/OS
- Mainframe VSE
- iSeries - OS/400
- Windows
- Linux Red Hat
- Linux SUSE
- IBM AIX
- Sun Solaris
- HP-UX
- Tandem
- DEC UNIX
- DEC VMS