IBM Information Server Change Data Capture

Highlights

■ *Integrates data bi-directionally between multiple computing platforms, enabling real-time synchronization.*

■ *Moves data in real time ensuring critical business information is readily available and accessible.*

■ *Deploys quickly and easily using a graphical user interface to solving business problems .*

■ *Delivers changed data into various targets including IBM Information Server, data warehouses, databases, applications and message queues.*

In today's fast-paced world, access to real-time data has never been more important. To be successful, organizations need to be able to report and analyze corporate data quickly and easily, regardless of what applications created the data, what platform they're running on, or what database they're stored in. They need to synchronize inventory, financial and customer information between existing systems and Web applications. And they need to be able to consolidate and distribute data between applications across different regions, business units and departments.

IBM Information Server Change Data Capture is a high-performance, low latency, real-time data integration solution that enables customers to easily sense and respond to relevant business data changes throughout the enterprise.

Information Server Change Data Capture advantages

With real-time data integration solution, today's organizations are making better business decisions, running smoother operations, winning new customers and partners, and increasing their bottom line. They're using IBM Information Server Change Data Capture to:

• *Load data warehouses in real time so they can make operational and tactical business decisions based on the latest information*

• *Dynamically route data, based on content, to various message queues to be consumed by one or more applications to ensure accurate and reliable data across the enterprise*

• *Populate real-time dashboards for on-demand analytics and business process management (BPM) to integrate information between mission-critical systems and Web applications so employees, customers and partners have access to real-time information*
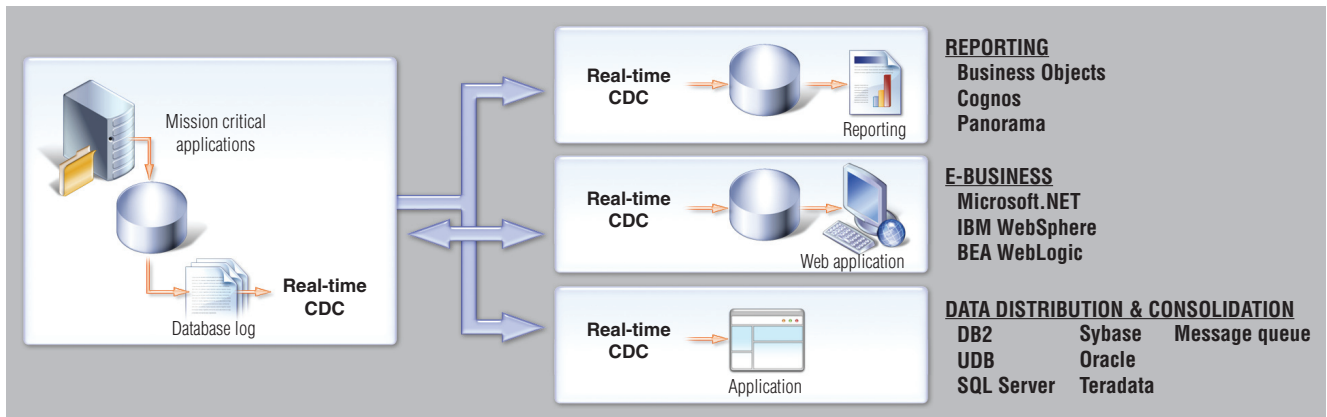
Figure 1: Architectural overview of IBM Information Server Change Data Capture

- *Consolidate financial data across systems in different regions, departments, or business units*

- *Improve the operational performance of systems that are adversely affected by shrinking nightly batch windows and expensive query and reporting functions*

Compelling advantages

- *Low impact – Rather than using triggers or performing queries against the database, IBM Information Server Change Data Capture uses best-of-breed log-based change data capture (CDC) technology to capture changed data from database logs. This ensures that the performance of even the most demanding mission-critical applications running on the source system is not adversely impacted.*

- *Easy to deploy – IBM Information Server Change Data Capture's easy-to-use GUI makes it simple to select source and target databases and then configure transformations. The net result could be faster implementation, help reduce cost, and increase return on investment.*

- *Real-time – Data changes are captured in the source system as they happen and the changes flow immediately to the target systems. All information is up-to-date and in sync.*

- *Efficient – IBM Information Server Change Data Capture can operate in real-time CDC mode, batch refresh or net-change CDC mode. With CDC, data is processed throughout the day, as the changes occur, rather than during a nightly batch window. This means organizations can eliminate redundant data transfer, free up their batch window for other tasks, and save network bandwidth.*

- *Flexible – Customers use IBM Information Server Change Data Capture to solve many different business problems across a wide range of platforms. Use it to load a data warehouse, synchronize data between existing systems and Web applications, distribute and consolidate data between different applications, or manage other replication-based requirements. It can be deployed in a variety of architectures, on many different platforms, and between all major databases including DB2®, UDB™, Microsoft SQL Server™, Oracle, Sybase, Teradata, and XML.*

- *Scalable – IBM Information Server Change Data Capture is a high-performance solution that easily scales to large data volumes without impacting the performance of mission-critical applications running on the source system.*

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IBM Information Server Change Data Capture integration with IBM Information Server – information is power

The ability to sense and respond to data changes in real-time is fundamental to customer's key IT initiatives including Dynamic Warehousing, Master Data Management, SOA, Migration/ Consolidations and eBusiness. IBM Information Server Change Data Capture integrated with IBM Information Server enables customers to capture and leverage real-time trusted information, allowing them to move at the speed of business difference.

Case studies

A consumer goods manufacturer stores its manufacturing data and sales figures on two separate ERP systems located in two countries. A nightly batch job loads the data into a data warehouse for reporting. But as business grows, so, too, does the volume of data. The eight-hour nightly batch window is proving too short. By using Information Server Change Data Capture to load data into the data warehouse in real time, the manufacturer has the accurate, up-to-date information it needs to make better business decisions, and frees up its batch window for other tasks.

A commercial mortgage provider wants to give customers online access to their loan and investment status. It's also looking to develop new Web applications so customers can apply for mortgages, pay their car loans, and conduct Internet-based lending. By using Information Server Change Data Capture to synchronize data between its existing systems and new Web applications in real time, customers have instant access to information and services over the Internet.

A global courier company wants to track customers' billing and package information as accurately as possible. But with only one billing application to track transactions in both North America and Europe, they're finding it increasingly difficult to manage the amount of data. They would like to be able to balance the load of this mission-critical system between separate systems located in North America and Europe, but they need to find a way to make sure critical information is synchronized between the two systems in real-time. By using Information Server Change Data Capture, they can have separate systems process transactions efficiently in each location and still synchronize critical data in real-time across the Atlantic. In turn, customers get up-to-date information and billing on a global basis.

Delivering information you can trust

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