

F.II GANCIA & C.SPA

DBMoto® Data Replication and Change Data Capture

AT A GLANCE

INDUSTRY

Wholesale/commercial winemaking and distribution

CORPORATE HEADQUARTERS

Canelli, Italy

HiT SOFTWARE SOLUTION

DBMoto

OVERVIEW

F.II GANCIA & C. SPA, was established in 1850, with the foundation of the first cellar in Canelli, Italy. Today, it controls nearly 5000 acres of vineyards, harvesting over 11 million pounds of grapes and producing 25 million bottles of sparkling wine, wine and fortified wine. Its presence in the international market dates from the end of the 1800s and now includes 60 export destination countries in Europe, the Americas, Asia and Africa.

“HiT Software’s technical staff was a highly qualified resource that understood our problems and resolved them effectively.”

Roberto Comina

Director of EDP
F.II Gancia & C. SpA

SCOPE

- Dual phases: Data replication and change data capture across multiple heterogeneous databases to synchronize core enterprise applications, and a data migration project from one ERP system to another.
- Real-time data updates to support 100 concurrent users of a mission-critical SFA application
- Data transformations when table/field structures change between databases

KEY CHALLENGES

- Provide access to data located on different databases for enterprise applications
- Migrate from one ERP system to another, while still accessing disparate data

WHY DBMOTO® WAS SELECTED

- Easy to use software that automated many necessary data management tasks in moving and sharing data
- Low total cost of ownership for a SMB business
- Non-resource intensive

IMPLEMENTATION HIGHLIGHTS

- Easy method to define and implement data synchronization between two different enterprise systems
- Speedy, accurate data integration with high performance on real-time data transfers
- Minimal impact on core systems

OBJECTIVES

Gancia's first requirement was to synchronize core enterprise data in its ERP system with the data in its sales force automation (SFA) system. The SFA system supports various activities including the company's customer interactions, internal customer service, the mass retail channel, the sales network, the area managers and more.

Gancia's data replication implementation plan however included two separate phases, each on a separate architecture. In the first phase, the data replication solution would need to integrate data between Gancia's ACG ERP system running on IBM i and its sales force automation system, which was implemented as an Xtel Web application based on Microsoft technology (ASP, VBA, .Net), running on an Oracle 10g database on Windows 2003. Among other things, the sales force automation system authenticates users based on credentials in an active directory, manages customer portfolios, orders, stock, bank statements and accounts receivable. This mission-critical system has around 100 concurrent active users.

In the second phase, Gancia planned to replace the ACG ERP with a SAP ERP system. This would require another set of data replication activities, to successfully migrate data from one system to another

without disrupting business. The SAP modules to be used include administration, warehouse, production, sales, distribution, as well as purchasing, inventory and sales commissions. The SAP ERP implementation would be running on a Microsoft SQL Server 2008 database on Windows 2008, R2.

PROBLEM SOLVED

In both of the above scenarios, the first with ACG ERP on IBM i, and the second with SAP ERP on Microsoft SQL Server/Windows, DBMoto enabled the data synchronization definition and implementation between each of them and sales force automation system on Oracle. For example, the SFA application generates orders, while the other system provides the pricelist, customer data, delivery dates, etc.

"In both phases, we built approximately 40 intermediary tables populated from the database and using DBMoto, synchronized each table handling changes in the order of hundreds of thousands of records each day," said Roberto Comina, Director of EDP. "During the migration between the two architectures, very little work was needed to ensure that DBMoto performed correctly. The only intervention required was to redefine certain replication properties using the DBMoto Management Center graphical user interface."

RESULTS

DBMoto served two purposes: one was to perform speedy, accurate and high performance data integration for real-time data transfers, and the other was to minimize the impact in the migration of ACG on IBM DB2 for i to SAP on MS SQL Server on Windows 2008.

In the second scenario, DBMoto was critically valuable for its ability to run external scripts. The replications handle scripts in PL/SQL to pass data from the intermediary tables to the production systems. The scripts are triggered once the replication is complete and data conformity is assured.

"At times, DBMoto is also used to transform data during the process of moving the data from one system to another. This occurs, for example, when new application requirements emerge and force changes in table and field structure," added Roberto Comina. "While it is fairly typical for ETL systems to transform data, in this case, the [DBMoto] process was extremely simple and cost effective to set up."

One simple example of DBMoto's flexibility is as follows. All the SAP tables have a column called client or sender which identifies the SAP environment, but this column does not exist on the SFA side. In the data migration transfer of data, it was enough to tell DBMoto to omit this column.

"HiT Software's technical staff was a highly qualified resource that understood our problems and resolved them effectively,"

Roberto Comina

Director of EDP
F.lli Gancia & C. SpA

WHY DBMOTO WAS SELECTED

The IS team was looking for a product to allow them to quickly and safely exchange data between heterogeneous systems. After a thorough evaluation of products available on the market, the decision was made to go with DBMoto for the reasons described within this paper, including an attractive total cost of ownership.

The use of DBMoto as a means to join, record and integrate the two architectures was so successful that when the company decided to substitute one of the systems involved, they used DBMoto features to set up the new system.

The IT team at Gancia SpA felt that one of the strongest advantages of using DBMoto was the expert technical support available. "HiT Software's technical staff was a highly qualified resource that understood our problems and resolved them effectively," said Roberto Comina.

About HiT Software, Inc. A BackOffice Associates, LL C Company

For more than a decade, HiT Software products have been providing access to critical data, enabling data availability and offering programming-free data integration across enterprise systems. HiT Software's standards-based products perform real-time, bi-directional replication between all major databases; execute real-time, bi-directional transformations between XML and all major databases; and connect applications to IBM DB2 databases via .NET, OLE DB, ODBC and JDBC standards. Founded in 1994 and based in San Jose, California, HiT Software is relied upon by thousands of organizations in virtually all vertical markets around the globe. HiT Software is a BackOffice Associates, LLC Company. Additional information is available at www.hitsw.com, through e-mail at info@hitsw.com, or by telephone at +1(408)345-4001.

HiT Software, Inc., A BackOffice Associates, LLC Company

4040 Moorpark Avenue, Suite 221, San Jose, CA 95117

T +1 408.345.4001 F +1 408.345.4899

info@hitsw.com www.hitsw.com

Copyright © 2012 HiT Software, Inc., A BackOffice Associates, LLC Company. All rights reserved. HiT Software®, HiT Software logo, and DBMoto are trademarks of HiT Software and BackOffice Associates, LLC in the United States of America and elsewhere. All other trademarks are property of their respective owners.

