StarQuest Data Replication

THE solution for reliable, real-time, replication of data.

Easy replication of data has become an essential part of managing information as people discover new ways of sharing and distributing all types of data. Replication of databases provides essential functions such as backing up data for disaster recovery and distributing information among departments and geographic locations.

Whether deploying applications to provide customers with real-time answers, to furnish suppliers with time-critical production requirements, to warehouse or mine data, or to supply management with the latest financial reports, key data comes from your core relational database. Enterprise organizations often need to move data between heterogeneous database platforms, such as between IBM DB2 and SQL Server or between IBM DB2 and Oracle. The StarQuest Data Replication solution provides reliable, high-speed, affordable replication for any ODBC relational database.

Feature	SQDR	SQDR Plus
Incremental replication		✓
Data mirroring		✓
Change data notifications		✓
Centralized control of tables published for replication		✓
Bi-directional replication	✓	✓
Vertical positioning	✓	✓
Horizontal positioning	✓	✓
Derived destination columns	✓	✓
Replication of views, indexes, and constraints	✓	✓
SQL processing before or after replication	✓	✓
Automatic conversion of data types	✓	✓
Scheduling replication operations	✓	✓
Snapshot replication	✓	✓
Operational email notifications	✓	✓
GUI and Wizards for easy configuration and management	✓	✓

Reliable and Fast

The StarQuest Data Replicator (SQDR) uses ODBC to access tables in source and target databases. It exploits multi-threaded processing to provide excellent performance for replicating multiple tables concurrently. If the destination database provides a native bulk data loader, such as SQL Server, SQDR takes advantage of those data loading techniques to provide optimum performance. For DB2 host systems, SQDR implements Fetch Ahead retrieval techniques to maximize use of the host connection and available bandwidth.

Incremental and Snapshot Replication Modes

The SQDR software provides snapshot (full refresh) replication. The companion SQDR Plus product provides real-time replication of incremental changes to a database. With SQDR Plus installed on the database host computer to monitor incremental changes, users can access the most recent data without the delay (latency) of refreshing an entire table to the destination database.

Powerful Data Transformation

SQDR lets you replicate the data you want. SQDR supports replication of specific columns (vertical partitioning) and selected rows (horizontal partitioning). The replicated data can either replace existing tables or be merged on a row-by-row basis. SQDR also supports derived destination columns and data transformations, including automatic conversion of date and timestamps. In addition, you can specify SQL statements to process data before or after it is replicated.

Secure

Both SQDR and SQDR Plus fully enforce the security mechanisms provided by the respective computer operating system and database system, allowing only those operations that are permitted by the operating and database systems.

Flexible

SQDR lets you control when the source data is replicated. You can replicate database tables, views, indexes, and constraints. Database views can be replicated either as data or the Data Definition Language (DDL). You can perform replication operations on-demand, or you can schedule them to occur at a specific time or on a regular schedule.

Easy to Use

Simple installation and configuration Wizards make product setup and operation a straightforward experience and requires no special programming knowledge. The graphical user interface of the SQDR Manager makes it easy to define and manage replication operations. With a single click of the mouse you can replicate all the tables in a schema. The SQDR Manager provides integrated event reporting, with comprehensive statistics, and allows notification of select events to be sent via email.

Affordable

StarQuest provides an extremely affordable replication solution, especially compared to other enterprise-level replication products. In addition to the base SQDR product, which is licensed for a particular Windows platform, StarQuest makes SQDR available in attractively priced bundles that include licenses for the high-performance StarQuest StarSQL ODBC driver which allows connecting to any DB2 platform, including DB2 UDB for iSeries, DB2 for z/OS, and DB2 UDB. SQDR Plus is licensed for each pair of source and destination databases, regardless of how many tables are replicated. Please contact a StarQuest Sales Representative for detailed pricing information.

Extensible

The base SQDR software provides full-refresh replication, creating a snapshot of the specified data on the target database system. If you need to perform real-time incremental replication based on log/journal management you can add SQDR Plus to the host computer. SQDR Plus supports incremental replication, which copies only the data that has changed. This modularity in the product architecture and pricing allows you to choose the replication solution that best suits your organization's needs. You can begin with the base SQDR product, and easily extend the solution to add incremental replication support should your business needs change.

Supported Databases

- DB2 for OS/390 v5.1 and later
- DB2/400 (DB2 UDB for iSeries) OS/400 v3r2 and later
- DB2 Universal Database (UDB) v6.x and later for UNIX and Windows
- SQL/DS (DB2 for VM & VSE) v3.3 and later
- SQL Server 2005 or SQL Server Express
- SQL Server 2000 Desktop Engine (MSDE 2000) Release A, or MSDE 2000 SP3a or SP4
- SQL Server 2000 with SP3a or SP4
- SQL Server v7.0 with SP1 or later
- Oracle 8i and later

System Requirements

SQDR Client

- Windows Server 2003, Server 2008, or
- Windows Vista, or
- Windows XP Professional or Home Edition, or
- Windows 2000 Professional or Server

SQDR Plus Host

- OS/400 v5r2 and later for DB2 UDB for iSeries, or
- DB2 UDB for Linux, UNIX, and Windows v8.2 or later with compatible operating system, and
- Java Runtime Environment (JRE) v1.4 and later

StarQuest has been a leading provider of database connectivity products since 1994. StarQuest products use open standards to maximize compatibility and interoperability within an enterprise network. StarQuest is an active member of The Open Group software industry consortium, which was responsible for the adoption of DRDA as an industry standard for database interoperability, and the StarQuest technology takes full advantage of open-standards such as DRDA, ODBC, and JDBC.

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