

SQDR: Real-time Database Replication

Technical Data Sheet

SQDR provides data availability and secure replication across multiple databases in real-time, regardless of host or target system location. IT teams experience an elegant, simply designed solution with minimal host impact that can be configured in hours, not days or weeks. SQDR moves data easily among your core relational databases in real-time across firewalls, to other teams, or to the cloud.

No-programming Ease and Affordability

GUI-based replication between your database platforms at a low TCO

Simple installation with GUI interfaces, configuration wizards, and advanced tools make product setup and operation straightforward, with no programming or consultants needed. The SQDR Driver bundle includes licenses for high-performance ODBC drivers for DB2, Oracle, MySQL and SQL Server. Depending upon your requirements, snapshot, incremental, and bi-directional replication are available. Only a single SQDR license is needed for source and destination databases, regardless of how many tables are replicated, delivering extremely low TCO.

Speedy and Agile

Replicate multiple tables concurrently in heterogeneous environments

Move data between heterogeneous database platforms, such as between IBM DB2 or Oracle and SQL Server or between IBM DB2, Oracle, Informix, and MySQL. The SQDR solution provides reliable, high-speed, affordable replication for any relational database accessible via ODBC. SQDR leverages native data loading functions, and exploits multithreaded processing to provide fast, reliable performance for replicating multiple tables concurrently.

Powerful, Flexible, and Secure

Safe data transformation on your own terms

StarQuest gives you greater control by allowing you to choose replication of the data you want with both vertical and selected horizontal partitioning. Replace existing tables or merge on a row-by-row basis. SQDR also supports derived destination columns and data transformations, including automatic and customized conversion and selection of dates, views, indexes, and constraints. While flexible, SQDR fully enforces the enterprise security mechanisms by integrating with both SQL Server/Windows security and the native security of your DB2 system.

Flexible Licensing

StarQuest provides an affordable replication solution, especially compared to other enterprise-level replication products. The SQDR license model is independent of the number of cores of either the source or destination DBMS- so customers only pay for the capacity required to support the replication processing load. Development/QA and Disaster Recovery (DR) pricing discounts are also provided.

Extend your data sources with StarQuest

Supported Databases

- IBM DB2 (DB2 for z/OS, DB2 for i* and DB2 LUW*)
- Microsoft SQL Server 2000 and 2005
- Microsoft SQL Server 2008 and later*
- Oracle 10g, Oracle 11g*, Oracle 12c*
- Informix
- Kognitio WX2
- MySQL
- Apache Derby

*Supported Source Databases for incremental replication



Supported Clients

- Windows 10, Windows 8.1, Windows 8, Windows 7
- Windows Server 2012R2, Windows Server 2012, Windows Server 2008R2, Windows Server 2008
- Linux x86
- Linux x86-64 (AMD64 & Intel EM64T)

Open Standards Commitment

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. The StarQuest technology takes full advantage of open standards such as DRDA, SQL, ODBC, and JDBC.

Thin Server, Ultra-low Footprint

Database-neutral solution at less than 1% resource consumption SQDR can process millions of changes per hour at a near zero footprint, avoiding any burden on your production or host databases. With no need to install or upgrade software on the source or target systems, deployment is fast and downtime is zero for migrations or upgrades. Our database-neutral SQDR solution gives you the highest performance at the lowest impact

Expert Support

- Experienced installation and configuration assistance gets your data flowing in hours, not weeks
- Extensive diagnostic expertise and support for related systems
- Supported by experts who know your system, not generalists who may not understand data replication
- Mission critical support you can count on to keep your systems running and data available

Extended Support Agreements

- Defined SLAs and 24x7 support
- Installation verification services
- Escalated treatment of support issues
- Proactive monitoring and maintenance
- Performance tuning
- Upgrade service performed by StarQuest
- Consistent application of time-tested best practices to ensure secure, reliable and efficient operation

Feature Summary

Functionality

- Incremental replication (mirroring)
- Snapshot replication (full refresh)
- Bidirectional replication
- Flexible replication scheduling and filtering
- Change Data Apply preserves transactional integrity

Performance

- Uses high-performance bulk-loading technology featuring restart checkpoints and multithreaded operation
- Subscription grouping and multi-path apply of change data
- Compressed Change Date

Management

- Centralized "publish" control of tables published for replication
- Audit trail features (change timestamp, job identification, unique identifier, Delete as Update options)
- No-maintenance window: Refresh uses shared locks – operates concurrently with production
- Transaction replay
- Performance statistics
- GUI-based interfaces for control and configuration featuring easy-to-use wizards

Monitoring

- Schema change notifications
- Event log and email notifications

Configuration

- Replication of views, indexes, and constraints
- Automatic conversion of data types, including up-conversion to Unicode
- Customizable conversion of data types
- Automatic Data Modeling (dynamic creation of destination objects including automatic mapping of column attributes while permitting user-defined customizations).
- Vertical (column picking) & Horizontal (row selection criteria) definitions
- Ability to define columns using built-in macros to access change data audit information.
- Support for standard SQL functions to transform existing data
- Import of table and column mapping definitions

Programming

- SQL processing before or after full-refresh
- Comprehensive scripting tools
- Push changes to message buses using XML-formatted messages

IBM i-specific

- Remote Journal support
- Multi-member support
- Support for Minimize Entry Data (MINENTDTA) and (*AFTER)