DataExchange for PSQL

Key Benefits

Protection against data loss

Real-time backup replication

Multiple replication sites supported

Increased application availability

Reduced downtime and time to recovery

Unified view of business data

Improved data security with 128-bit encryption

Supported Platforms

Windows Server 2016

Windows 10, 8, 7

Windows Server 2012, 2008 R2

Windows Small Business Server 2011, 2008

Windows Foundation Server 2008 R2

Reliably Move Data Between Databases

DataExchange for PSQL offers two types of data replication solutions: real-time data backup of a single PSQL database and data synchronization between multiple applications. DataExchange provides a simple to use solution for securing and protecting your mission-critical data from application downtime and data loss.

Keep Business Data Secure and Organized

DataExchange meets your most important data replication needs. DataExchange Real-Time Backup Edition can help reduce disaster-related downtime with a remote backup of key application data. DataExchange Data Synchronization Edition can help keep a consistent set of data across multiple applications.
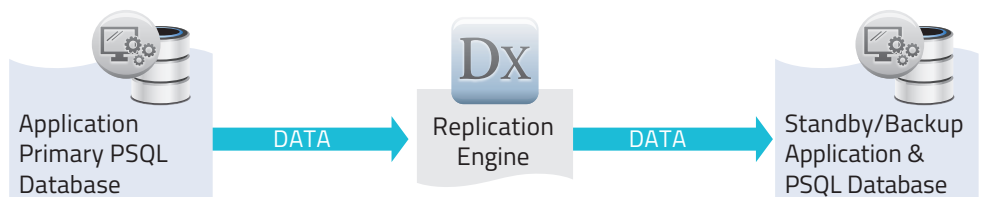
Real-Time Backup Increases Application Availability

Quick recovery is essential to minimize business losses during an application outage. DataExchange Real-Time Backup captures change events in the PSQL database and replicates them to a secure remote always-available duplicate backup. DataExchange reduces the loss of data and downtime associated with:

- Hardware Failure – computer or disk crashes
- Site Disaster – floods, fires or power outages
- User and Application Errors – accidental deletions, OS or application errors

DataExchange Real-Time Backup Edition helps reduce the recovery time in the event of a loss – no matter what the cause.

DataExchange Real-Time Backup Edition

Application Primary PSQL Database → DATA → Replication Engine → DATA → Standby/Backup Application & PSQL Database
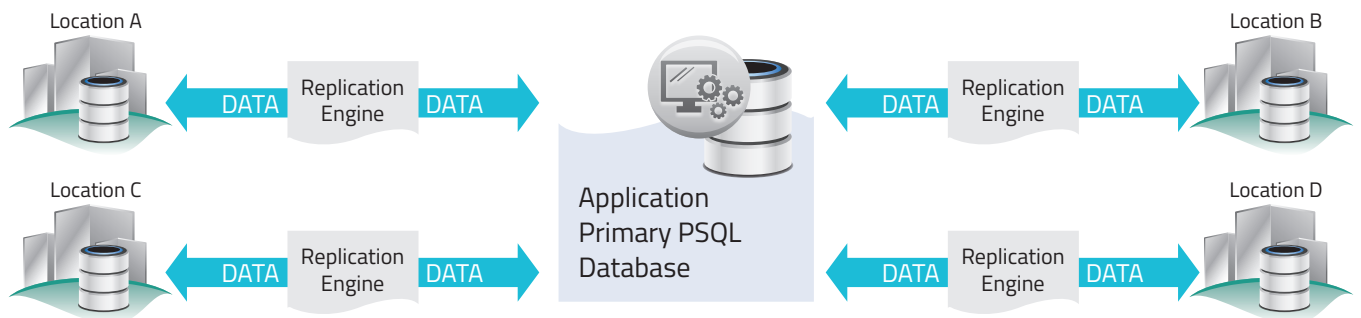
DataExchange Technology

DataExchange captures and shares changes from one PSQL database to another by adding two software components to the database: Replication Event Handler and Replication Engine.

- Replication Event Handler plugs into the PSQL database engine and logs inserts, updates and deletes.
- Replication Engine reads the tables created by the Event Handler and identifies records changed since the last replication session.
- Changes are grouped into packets and shared with other replication engines participating in a DataExchange network.
- Detecting and Resolving Conflicts – DataExchange has default and user-definable conflict resolution rules.
- Encrypting Communication – All communication between PSQL servers is encrypted with a 128-bit key.

DataExchange supports multiple replication networks

Location A — DATA — Replication Engine — DATA — Location B
Location C — DATA — Replication Engine — DATA — Application Primary PSQL Database — DATA — Replication Engine — DATA — Location D

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