

Advantage™ Replication

Advantage Replication is integrated into Advantage Database Server to make deployment rapid and painless. Now Advantage developers can replicate databases across distributed servers with consistency.

As a developer of client/server database business applications, you strive to deliver fast, stable, and scalable solutions to your customers. With the business world shifting to an increasingly distributed workplace featuring remote satellite offices and mobile employees, you and your customers need your applications to adjust effortlessly and dynamically.

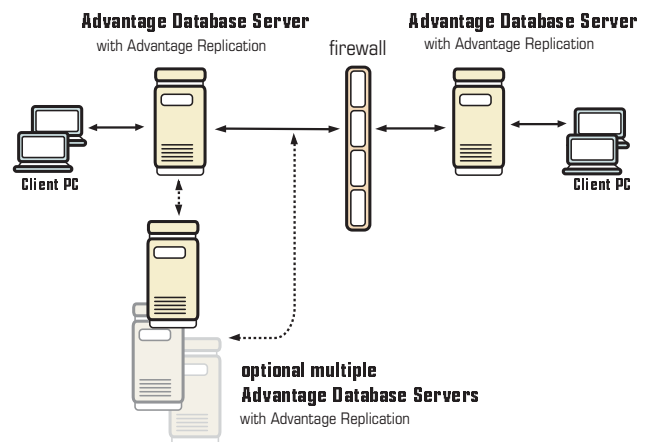
With Advantage Replication, your data can cross the expanding borders of the modern distributed workplace without disrupting your architecture or your clients' existing data infrastructure and data security standards.

We've taken database replication to a new level, allowing developers to offer solutions that automatically replicate data across distributed databases, supplement tape backups, adjust quickly and reliably to system or server failures, and — perhaps most importantly — prepare your customers for a distributed workplace.

WHAT IS REPLICATION?

Replication has reached the mainstream as businesses contend with an increasing amount of data from a growing number of sources, including satellite offices, mobile workers, and the Internet.

Replication provides the capability to automatically distribute data changes from one database to another. The source tables to be replicated and the target database(s) are easily specified and no changes are necessary for applications currently using Advantage data dictionaries. Simply update the existing data dictionary with the replication rules.



ADVANTAGE REPLICATION: TWICE THE POWER

With Advantage Replication, the power of Advantage Database Server is enhanced by the distributed data management capabilities and benefits of replication. In conjunction, these technologies deliver an unmatched, server-to-server and server-to-laptop/desktop replication solution that enables developers to allow their business customers to seamlessly integrate the highest standards of database management and a distributed data architecture.

Advantage Replication is based upon an asynchronous push model in order to minimize performance impact on applications and to minimize latency in delivery of updates to target databases. In addition, Advantage Replication provides the capability to transmit all updates in a source database to tables in one or more target databases. If two-way replication is necessary, rules can be specified at the target database to replicate changes back to the source or to other databases. If multiple target databases are used where each target has only a subset of the data, filters can be specified at the source in order to control the delivery of data to the target databases. Transactional and referential integrity is maintained and enforced during replication and conflict resolution can be resolved by specifying

CONFLICT triggers on target tables. If a target server is offline, the changes are automatically queued up until the target becomes available. The resulting combination provides an easy and powerful solution for providing replication functionality.

CONSIDER THE BENEFITS OF ADVANTAGE REPLICATION:

Data consistency

Advantage Replication offers the ability to maintain identical database information at multiple locations.

Highly distributed

Consider sales and service companies where users are disconnected during the day, but need to update orders/inventories and other information automatically after normal working hours. Advantage Replication provides an easy solution when data must be highly distributed.

Offline reporting or data warehousing

Moving data from production servers to reporting servers removes the processing loads of complex reports or data mining operations from production environments. Replication can increase the speed and efficiency of reporting without impacting day-to-day operations.

Database security

With Advantage Replication, security, stability, and availability are maintained while providing access to data located at distributed locations. Advantage Replication also distributes new data entered by external users and helps to enable failover and clustering capabilities, minimizing delays and data loss.

High availability

Advantage Replication makes data available at all times, satisfying demand among developers of mission-critical applications. Sales force members, branch offices, or chain retail locations, for example, are able to exchange and share data from point-of-sale applications through regional and district offices to the corporate level, and back again.

SPECIFICATIONS

Server operating system

Microsoft Windows x86 (IP, IPX)

Microsoft Windows x86_64 (IP)

Linux x86, x86_64 (IP)

Database server support

Advantage Database Server version 8.0 or later must be installed on all servers involved in replication.

Optional add-on services

Replication functionality to non-Advantage data sources is also available via OneBridge Mobile Data Suite, a separately licensed product. OneBridge Mobile Data Suite supports replication of any database accessible via ADO (OLE DB) or ODBC in addition to custom databases accessible via the OneBridge Mobile Data Suite Data Driver SDK.

Security and encryption

Database User Account authentication and rights verification

160 bit RC4 data encryption for communication

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