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PRODUCT DOCUMENTATION

CacheDB SQL Server Proxy Compatibility

Compatibility

What CacheDB does

CacheDB is a transparent database proxy that can serve eligible reads from a Redis-compatible cache while sending writes to SQL Server. Applications retain their SQL Server driver and SQL. Cache lifetimes can be defined per query, while scripts can describe how writes invalidate cached results. Teams can start in transparent observation mode before enabling cache behavior.

Proxy and compatibility model

The SQL Server Proxy speaks Microsoft's Tabular Data Stream (TDS) protocol to applications and relays database traffic without translating SQL dialects. TDS version, TLS mode, authentication, driver, and server release all affect compatibility. The matrix describes tested combinations where recorded; it does not imply that every driver and server cross-product has been exercised.

SQL Server versions

Database release and protocol	Status	Qualification detail
SQL Server 2022, TDS 7.x	Validated	Included in the current native-proxy validation set.
SQL Server 2025, TDS 7.x and strict TDS 8.0	Validated	Strict TDS 8.0 was exercised with a verified certificate.
SQL Server 2022, strict TDS 8.0	Not validated	Current test environment did not complete login; qualify the exact deployment.
SQL Server 2008 and 2008 R2	Minimum target, not validated	Agreed minimum release; test the exact patch level and driver before deployment.

Client and runtime coverage

Client / runtime	Version or build	Status and notes
Microsoft.Data.SqlClient (.NET)	7.0.3	Validated with encryption and Encrypt=Strict (TDS 8.0), MARS, bulk copy, cursors, prepared statements, and transactions.
Microsoft ODBC Driver	18.7	Validated.
Microsoft JDBC Driver (Java)	mssql-jdbc 12.10.0	Validated with encrypted and strict TDS 8.0 connections.
Rust TDS client	tiberius	Validated.
jTDS (Java)	1.3.1	Validated for TDS 7.1 without TLS only. Use only where that unencrypted setup is acceptable.
Older SqlClient, DB-Library, FreeTDS, ODBC earlier than 17	Various	Not validated in the current compatibility record.

Important integration points

- **Encryption:** TLS 1.2 or newer is supported. Validate certificate chain, hostname, and encryption mode. Strict TDS 8.0 was validated with SQL Server 2025 and the listed Microsoft drivers.
- **Authentication:** integrated SSPI/Kerberos and Federated Authentication are not supported by the proxy. Use a supported SQL authentication path and qualify the exact setup.
- **Protocol features:** MARS traffic is relayed but not cached. Bulk copy, cursors, prepared statements, and transactions were included in the listed .NET validation.
- **Cache behavior:** only eligible reads are served from cache. SQL is preserved and not translated; cache TTL and write invalidation follow configured policy.

For a production decision, confirm the server patch level, TDS/TLS settings, authentication mode, and exact client library in a proof of concept.