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PRODUCT DOCUMENTATION

CacheDB Db2 Proxy Compatibility

What CacheDB does

CacheDB is a transparent database proxy that can serve eligible reads from a Redis-compatible cache while forwarding writes to Db2. Applications keep their Db2 SQL and existing driver. Cache lifetimes can be set per query, and scripts describe write effects for cache invalidation. Teams can first observe traffic in transparent mode before enabling cache behavior.

Proxy and compatibility model

The Db2 Proxy speaks DRDA, Db2's native client/server protocol. It does not translate SQL or require an application-side query rewrite. Compatibility is influenced by Db2 edition and release, driver build, security configuration, and session setup. Validation of one driver and server does not imply that every combination is tested.

Db2 server versions

Database release	Status	Qualification detail
Db2 LUW 11.5	Validated	Current native-proxy validation target.
Db2 LUW 10.5 FP3	Minimum target, not validated	Agreed minimum release; qualify the exact fix pack and environment.
Db2 for z/OS	Customer qualification required	Validate the target release, subsystem, network, and security configuration with the customer environment.

Client and runtime coverage

Client / runtime	Version or build	Status and notes
IBM Data Server Driver for JDBC and SQLJ (Java)	11.5.9, JCC04330	Validated.
IBM Data Server Driver for ODBC and CLI	11.5.9, SQL11059	Validated.
Older JCC or CLI builds	Not version-pinned	Not individually validated; qualify the exact driver.
IBM Db2 .NET provider	Not version-pinned	Not individually validated; expected to use DRDA, but verify the target application and provider.

Important integration points

- **Transport security:** TLS 1.2 or newer is supported on both client-to-proxy and proxy-to-database connections; configure and verify both legs.
- **Authentication:** the validated security path uses USRIDPWD with an encrypted password. Qualify alternate authentication mechanisms explicitly.
- **Session setup:** the effective schema must be established before reads that should be cached.
- **Cache inspection:** requests the proxy does not recognize are relayed but are not cached or used to infer invalidation.
- **SQL behavior:** Db2 SQL is preserved; CacheDB does not translate dialects. Cache eligibility and invalidation depend on the configured policy.

Before production, qualify the Db2 edition and fix pack, driver build, authentication, TLS, schema setup, and representative application behavior in a proof of concept.