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PRODUCT DOCUMENTATION

CacheDB Oracle Proxy Compatibility

What CacheDB does

CacheDB is a transparent database proxy that can serve eligible reads from a Redis-compatible cache while sending writes to Oracle Database. Applications keep their Oracle SQL and existing client libraries. Cache TTLs can be defined per query, and scripts describe procedure or write effects for invalidating cached results. Teams can observe traffic transparently before enabling cache behavior.

Proxy and compatibility model

The Oracle Proxy speaks Oracle Net and relays Oracle's native client/server traffic; it does not translate SQL dialects. Compatibility depends on database release, client library, connection mode, and Oracle Net security settings. The current validation includes several client families and database versions, but not every possible cross-combination or build.

Oracle Database versions

Database release	Status
Oracle Database 11.2 XE	Validated
Oracle Database 12.1 and 12.2	Validated
Oracle Database 18c XE	Validated
Oracle Database 19c	Validated
Oracle Database 21c XE	Validated
Oracle Database 23ai Free	Validated

Client and runtime coverage

Client / runtime	Version or build	Status and notes
Oracle JDBC Thin (Java)	ojdbc6 11.2.0.4; ojdbc8 19.29; ojdbc11 23.26	Validated for the listed driver builds.
Oracle Data Provider for .NET (ODP.NET)	2.19.290 and 23.26.301	Validated for the listed provider builds.
python-oracledb (Python)	Thin and Thick; Instant Client 19.30 and 23.26	Validated. Thin mode requires Oracle Database 12.1 or later.
OCI SQL*Plus	11.2	Validated.
Pro*C	Instant Client 19	Validated.
Other Instant Client releases, ODBC, other Pro*C builds	Various	Not individually validated in the current compatibility record.

Important integration points

- **Transport security:** configure Oracle Net TLS (TCPS); TLS 1.2 or newer is supported. Oracle Native Network Encryption is unsupported.
- **Data and binds:** LOB values and NCHAR binds are not cached. They continue through the proxy to Oracle.
- **Session behavior:** session NLS settings can affect query results and should be included in application qualification.
- **Write invalidation:** procedure side effects are not inferred automatically in all cases. Use the configured Rhai invalidation policy to describe relevant effects.
- **SQL behavior:** Oracle SQL is preserved and not translated. Only eligible reads are served from cache; other traffic continues to the database.

For a production decision, qualify the exact database release, Oracle client build and mode, TCPS configuration, session settings, and stored procedure behavior.