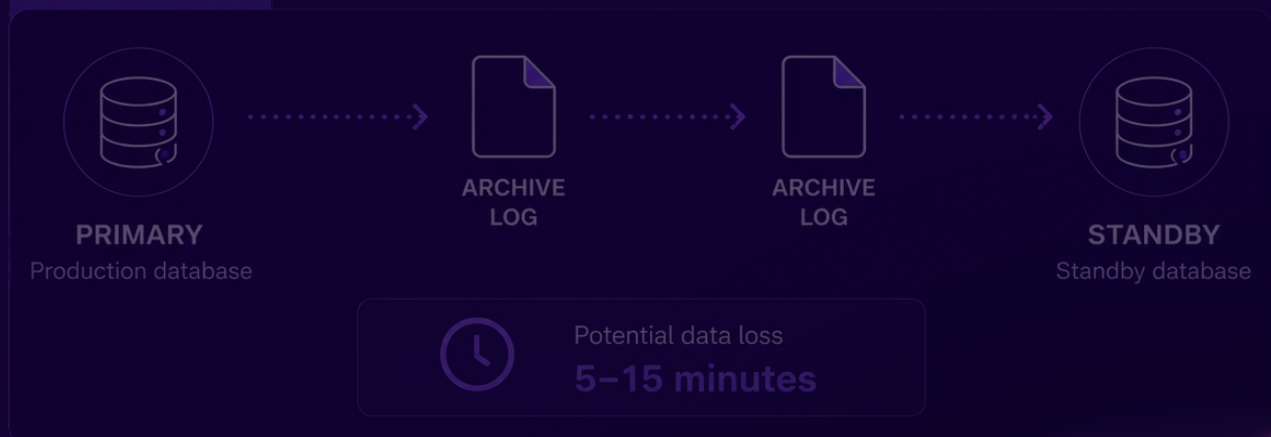


ZDL - Zero Data Loss Option for Oracle SE

WITHOUT ZDL



WITH ZDL



The Standby MultiPlatform (StandbyMP) Zero Data Loss (ZDL) option sets a new benchmark, redefining best-practice disaster recovery on Oracle Standard Edition (Oracle SE).

- Sub-second RPO for Oracle Standard Edition
- Continuous redo streaming for greater data protection
- Dual replication for enhanced resilience
- Fast deployment without re-architecture
- Simple management through GUI, CLI or API

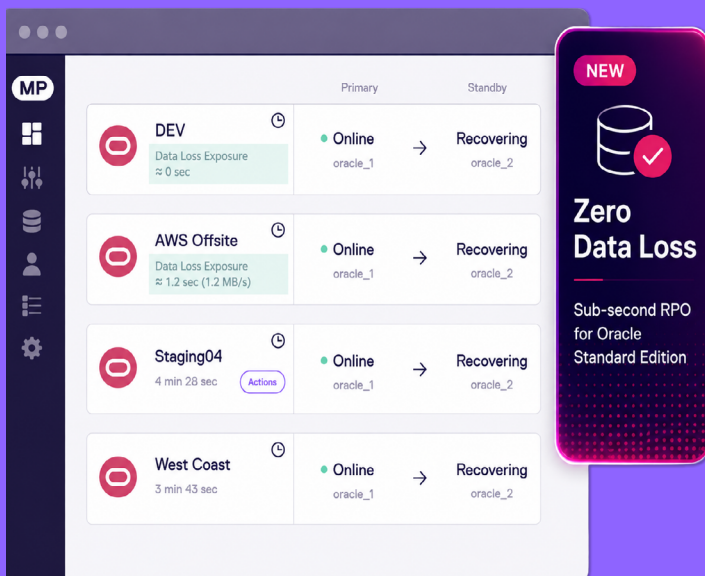
Sub-second data loss on Oracle Standard Edition

A standby database on Oracle SE, without data loss!

Archive log shipping is currently considered industry best practice for Oracle SE databases, delivering highly reliable protection but with the potential for 5–15 minutes of data loss. This creates a dilemma: deploy a fragile and complex solution, move to Oracle Enterprise Edition, or accept several minutes of data loss.

Zero Data Loss changes this paradigm, delivering sub-second data loss while staying on Oracle Standard Edition, and without introducing new infrastructure or unnecessary operational complexity.

And when the upgrade or deployment is straightforward and cost effective, the question becomes pretty simple: if you can protect more of your data, why wouldn't you?



Dual Layer Replication for Resilience

ZDL adds a second replication layer, continuously streaming changes from the primary database's active redo logs to the standby. During activation, StandbyMP can use this replicated redo to recover transactions that had not yet reached standby by archive log shipping.



Low RPO Without the Compromises

Previously, achieving near zero data loss has meant spending a lot, increasing complexity, or requiring system-level changes.

Zero Data Loss is no-compromise Disaster Recovery. Quickly configure ZDL using StandbyMP's GUI or CLI, easily manage ZDL with the renowned StandbyMP Control Center, and retain the affordability of Oracle SE.



All the Features with Sub-Second RPO

Most near-zero data loss solutions compromise on features, ease of use and stability.

StandbyMP Zero Data Loss retains all the features that make it the most popular DR solution for Oracle SE, including:

- Reliable set-and-forget archive log replication
- Graceful switchovers and switchbacks
- Intelligent Activation to points in time
- One-click actions, including DR tests
- Test/Dev and reporting snapshots



Wide Oracle Technology Support

StandbyMP works with nearly every Oracle technology you can think of, and it's our goal for the ZDL option to do the same. Supported platforms and technologies include:

- File-system, OMF and ASM
- Linux and Windows
- ODA and SE2HA
- OCI (BDBS and Compute VM/Bare Metal)



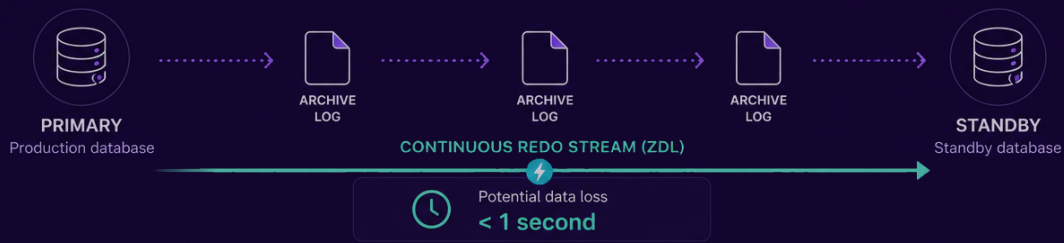
Easy Upgrade Path

Upgrade to the Zero Data Loss option quickly and easily using a guided workflow in the GUI or CLI. There are no dependencies and all existing StandbyMP operations remain the same.



Two layers. One resilient standby

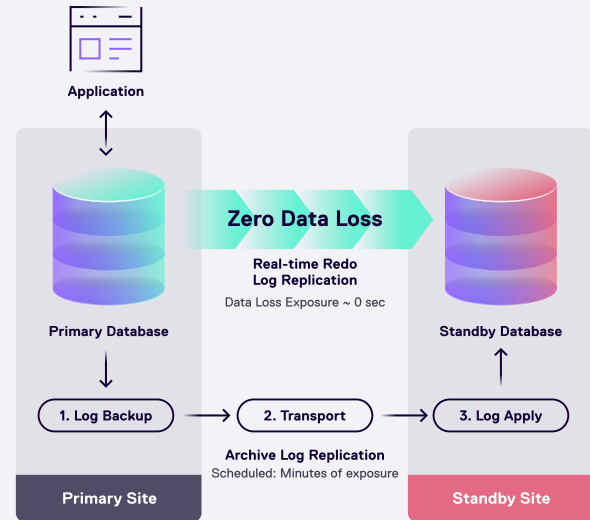
If the ZDL stream is interrupted for example, by a network issue, then StandbyMP automatically continues to protect your data using archive log shipping.



Architecture

Zero Data Loss is an additional real-time replication layer that streams changes from the primary's active redo logs to the standby continuously, instead of waiting for the next archive log interval. The recorded redo stream can then be incorporated during standby activation to close the final gap. This takes typical exposure from minutes down to under a second in qualified environments.

ZDL works together with archive log shipping and does not replace it, meaning all existing StandbyMP functionality is retained.



FAQ

Q: Does Zero Data Loss replace archive log shipping?

A: No, they work together. Archive log shipping is used as the primary method to synchronise the standby database. At the same time, the primary active redo is replicated in real-time to the standby, but not applied. At the time of failover, the replicated redo can be applied to the standby database.

Q: Are there any system-level changes required?

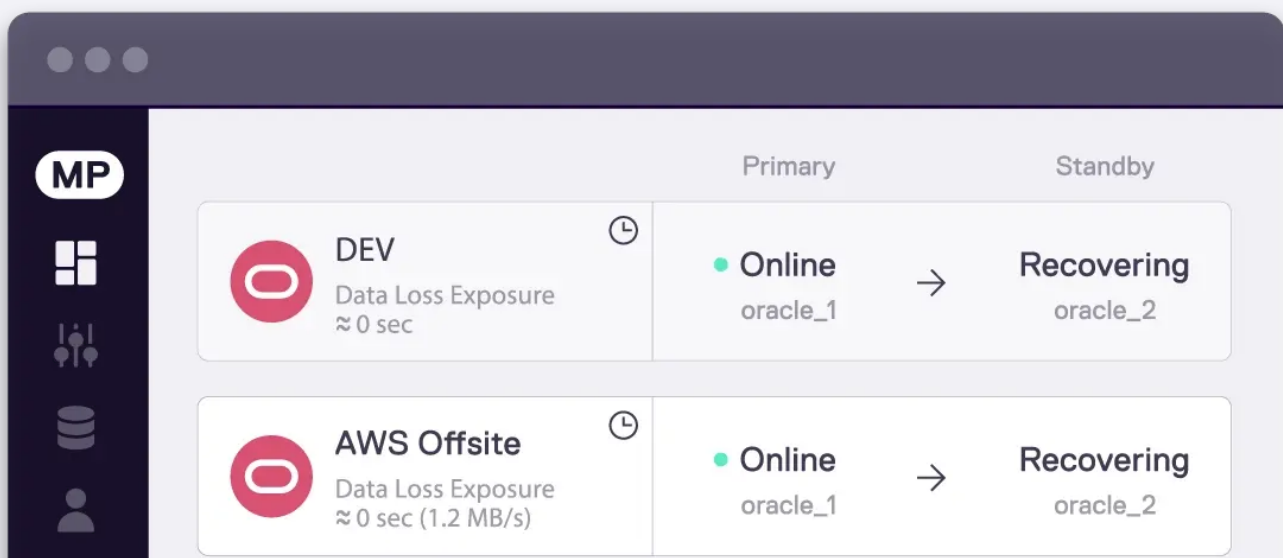
A: Typically no, the only requirement is for a modern high speed disk and well-performing network.

Q: Is replication synchronous or asynchronous?

A: Asynchronous replication with sub-second delay for qualified environments. This can change based on compute, storage, and network loads.

Supported Platforms

- **Operating Systems:**
Linux; Windows Server
- **Oracle Database:**
12.2 onwards
- **Storage Management:**
Filesystem; OMF Filesystem; ASM
- **Oracle Cloud:**
Oracle Base Database Service; OCI Compute (VM/Bare Metal)
- **Hosting Models:**
On-Premises; Cloud; Hybrid
- **Other:**
ODA support, SE2HA support





MP

	Primary	Standby
DEV Data Loss Exposure ≈ 0 sec	● Online oracle_1	→ Recovering oracle_2
AWS Offsite Data Loss Exposure ≈ 0 sec (1.2 MB/s)	● Online oracle_1	
Staging04 4 min 28 sec Actions	● Online oracle_1	
West Coast 7 min 45 sec	● Online oracle_1	

East Coast (Oracle)

Configuration ID: 1

Zero Data Loss

License expires on 2027-04-30

Update

Actions

🔄

View Data Loss Exposure

📁

Backup & Send Logs

🔄

Synchronize

↔

Graceful Switchover

🔌

Start/Stop Database

⚠

Activate Standby

info@dbvisit.com | dbvisit.com