Standby

TECHNICAL FEATURES

Integrity

Standby delivers the highest levels of database integrity through the intelligent creation, synchronization, administration, and continuous verification of a warm standby database.

Continually verified database
The standby database is warm and continuously self-verified, guaranteeing database integrity and successful failover at any time.

Physical replication
The standby database is an exact replica of the primary and all changes at the lowest (binary) level to ensure data integrity. All indexes, pointers, and tables are transferred to ensure database consistency.

Graceful switchover
A simple automated process for performing a planned switchover (role change) between primary and standby database environments with zero data loss. Perfect for planned outages or for testing disaster preparedness. Supports Oracle Unified Auditing.

DR Testing integrated
Run comprehensive automated tests for your Standby database to ensure your environment is prepared for failover.

Pre-flight checks
Automated pre-install checks are the first step in creating the standby database and ensure the standby server meets technical prerequisites before installation begins. This saves the user time by avoiding the rework needed if basic prerequisites are not met.

Real-time monitoring
Continual monitoring of the time gap, tasks, and issues, combined with smart notifications and automated failover, ensures database continuity.

Configurable lag time
A "lag" (delay) can be configured to keep the standby "X" amount of time behind the primary database. This can help guard against human error, as changes to the standby database can be stopped during the lag time.

Multiple standby database support
Create and maintain multiple standby databases from the same primary database.

Cascading standby database support
Standby v8 and above supports cascading standby databases where a standby database is created from an existing standby database.

Timestamp recovery
Recover to a predefined SCN or Timestamp.

Datafile level restoration
Replace/restore a specific data file on the standby database if data file corruption is detected. For example, if the standby server experiences a hardware issue and one data file is marked corrupt, using Dbvisit Standby, you can resend (backup/restore) this one data file from the primary to the standby instead of rebuilding the whole standby database.

Network encryption
Network encryption is enabled by default.

Configuration data encryption / filtering
Supports security-in-depth by preventing sensitive data theft even if storage media is compromised.

Speed

Standby™ is the fastest route to database continuity, ensuring minimal data loss (RPO), ultra-fast recovery in just a few minutes (RTO), and low resource requirements.

Warm standby database for fast recovery
The standby database is warm and operational and can take control in just a few minutes by simple command or an automated observer.

Automatic failover (or manual)
An observer monitors the status of both the primary and standby databases. If any errors are detected, a notification is sent, and the system can perform an automatic failover based on pre-defined rules.

Continuous update (max. 10min RPO)
Archive logs are continuously transferred and applied to the standby, ensuring typical maximum data loss of 10 minutes.

Low overhead architecture
Standby requires few server resources, has low latency requirements and is data-efficient.

Reporting and test/dev with Standby Snapshots
Standby's Snapshot feature quickly creates short-lived point-in-time, or regularly updated environments for reporting, DR testing, and test/dev. Available on Linux only.

Network compression
Archive logs are compressed during transfer providing significant savings on bandwidth requirements.

Reporting from standby (read only)
Further increase your return on investment (ROI) by utilizing the standby database in read-only mode for reporting read-only queries. During this time the archive logs can still be sent to the standby database, and once the standby database is put back into recovery mode, recovery can continue.

Backups from standby
Utilize your standby for the creation of backups.

Transportable media option
Create a standby database when no network link is available or the database size is prohibitively large using a local storage device.

Scripted batch operations
Standby operations can be scripted into batch mode using API calls for easy configuration of sites where multiple standby databases need to be managed. This is useful for hosting companies looking after big sites with many standby installations.

Pre or post processing
Shell or batch scripts can be configured to perform other tasks prior to Standby execution or after execution. These pre- and post- processing jobs can even be configured for advanced options such as when Graceful Switchover or activation is executed.

Automation

Standby's highly automated experience removes manual processes, stress, and opportunities for error. Standby™ ensures you're always protected.

Failover upon issue detection (or notification)
An observer can perform notification or automated failover upon issue detection.

One-click re-synchronization
A simple process for resync of the standby database after no logging operations are performed on the primary database, or if a non-recoverable archive log gap occurs. Without this option, the end user either must follow a complex manual process or rebuild the standby database.

Support package creation
The support package collects detailed data automatically for fast issue resolution together with Dbvisit support.

Archive log management
Automatic management of the archive logs on both the primary and standby databases using the Standby Archive Log Management Module (AMM). This also includes automated log shipping from the primary database to the standby database.

Clarity

Standby™ brings simplicity to all your experiences, with one intuitive UI across all Oracle databases, effortless standby creation, simplified operation, and smart notifications from real-time monitoring.

One intuitive UI
A consistent browser-based UI that can communicate with all Oracle database versions.

Effortless standby creation
Creation of one or more standby databases in a fast, streamlined process. The Standby database can use ASM or non-ASM file systems.

Guided user experience on GUI
The GUI enables administrators to perform tasks quickly, easily, and with confidence. Lower barriers to use reduce dependency on key employees.

Smart notifications (log gap, heartbeat, status)
Use email and Slack to notify admins of status and issues.

Multi-language UI
The Graphical User Interface (GUI) is available in five languages: English, French, German, Spanish, Japanese, Simplified and Traditional Chinese.

API options
More than 80 API (Command Line Interface) options are available for easier integration into your current environment, or the execution of processes in a "batch" form.

Advanced task tracking
Tasks in the Standby Central Console offer extensive information about all initiated processes and database events.

Templates
Utilize templates for even quicker recreation of standby databases. For example, following DR tests such as activation/failover tests.

User management and access controls
Track and limit user access on a per-database basis.

Compatibility

Standby™ is Gold Standard Disaster Recovery for Oracle SE. Standby™ aligns with Oracle best practice, ensuring long-term reliability and full ongoing Oracle support.

Full Oracle technology support
Full support of Oracle features such as RAC, SE2HA, ASM, and Oracle Managed Files (OMF).

Oracle Multitenant support
Automatically transfer and synchronize up to three Pluggable Databases (PDBs) to your Standby environment on one Standby license.

Cloud Ready
Supports cloud-based solutions or hybrid solutions for Oracle, AWS, and Microsoft Azure where the primary database is run on-site, and the standby database is running in a hosted environment, or the complete configuration is in the Cloud.

Oracle ASM support
Use Oracle on ASM, including the option where the primary might be using ASM and the standby a normal file system.

Oracle HA (RAC / SE2HA) support
Full support for Oracle RAC and SE2HA (using ASM) even when more than two nodes are used, or the secondary is not RAC.