



## HP, Oracle and Gravic

### Shadowbase Zero Downtime Migrations (ZDM)

# Achieve zero application downtime for upgrades, migrations and conversions

#### Solution benefits

- Capacity expansion – expand with symmetric or asymmetric nodes
- Load balancing – redistribute users and partitions across the network
- Disaster tolerance and data locality – disperse nodes geographically
- Zero downtime migrations – in increments, or initially to an active/active environment
- Operations – risk-free failover/recovery testing, or run and maintain unattended

#### Shadowbase ZDM

Your company needs to eliminate planned downtime, provide continuous application availability and remove business risk from its application upgrades. Your enterprise may need to migrate to new hardware, upgrade its operating system or database software, or convert to a newer application version.

#### Shadowbase ZDM eliminates planned downtime

Shadowbase ZDM completely eliminates planned application downtime and improves your application availability. A large amount of system downtime is due to planned outages required for upgrades, maintenance conversions or migrations. The reasons for the downtime could be to upgrade an operating system, release a new application, maintain the database or install new hardware. With Shadowbase ZDM, your interruptions are handled without denial of application services to end users; therefore any scheduled downtime is eliminated. All that is needed is a location (on the same node or another node, depending on the type of conversion) for the new environment.

#### The HP and Oracle advantage

Through a collaborative partnership that spans more than 25 years, HP and Oracle® offer flexible, adaptable solutions that enable you to effectively manage the changes inherent in today's volatile business environment. Implementing open, standards-based HP/Oracle solutions allow you to leverage your existing technology assets, which leads to a reduced total cost of solution ownership and increased return on your investment.



HP and Oracle consistently deliver outstanding database performance demonstrated through industry standard benchmarks while also introducing customers to breakthrough technologies that:

- Ensure critical business information is available when needed
- Provide proven performance, scalability and capacity on demand for any business requirement
- Secure and protect the privacy of sensitive business information
- Enable your organization to develop and deploy business solutions quickly



## Shadowbase ZDM

When the new environment is built, synchronized, tested and verified, the current end user production application is not affected. Users are phased over to the upgraded environment, which has been thoroughly tested in live operation. Users are never denied application services. Outage time is reduced to the few seconds required for the application switchover times. During online copying and re-synchronization, full consistency is maintained at the target database for the portion that was already copied. Full support is provided via Shadowbase ZDM for the capture, transformation, cleansing, routing and delivery of transactional data for application to the target database. Our patented bi-directional replication technology allows the initial system to run in service while the upgraded system is integrated into the live environment. Both databases are kept synchronized with each other via Shadowbase ZDM as users are cut-over, avoiding the "big bang" syndrome. Heterogeneous environments are supported between the initial and upgraded systems including: hardware, operating systems, databases and structures.

### HP products supported

Get the most reliable, flexible, scalable infrastructure for your most demanding business requirements. The HP Integrity systems family is the most trusted brand for mission critical environments requiring the highest RAS levels. Meet your diverse Oracle Database platform needs with a multi-OS ecosystem running HP-UX 11i, Microsoft® Windows® Server and Linux. The HP Integrity platform provides a unique combination of mission critical availability, virtualization and scalability tested by HP as an ideal platform for Oracle solution deployments.

### HP software

HP software products are the industry-standard framework for managing integrated networks, systems, applications and databases in multi-vendor computing environments. Solutions include a broad portfolio of management products and services that help customers improve service levels and reduce operating costs in multi-vendor environments.

### Oracle software supported

Oracle Database Enterprise Edition delivers industry leading performance, scalability, security and reliability on a choice of clustered or single-servers running Windows, Linux and UNIX®. It provides comprehensive features to easily manage the most demanding transaction processing, business intelligence and content management applications.

Oracle Database Enterprise Edition comes with a wide range of options to extend a world leading database to help grow your business and meet your users' performance, security and availability service level expectations.

### Service and support

As a trusted global business partner, we are focused on solving client challenges through practical innovations that deliver valuable business outcomes. Teamed with HP services, we provide global service solutions to our clients. This powerful combination of resources and talent gives us the scale and scope to manage our clients.

### Working together to drive success

For customers who want to optimize their business outcomes, HP and Oracle offer the products, services and experience to accelerate business growth, mitigate risks and lower costs—providing a solid return on your IT investment. Strategic partners for over 25 years, HP and Oracle have experience with over 140,000 customers across all verticals from SMB through the enterprise, and the breadth and depth of our solution stack—including HP/Oracle reference architectures, applications and operating systems that allows us to provide customers with a total solution.

## Technology for better business outcomes

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