



HP and Gravic, Inc.

Shadowbase

Achieve zero application downtime for upgrades, migrations and conversions

Shadowbase zero downtime migrations (ZDM)

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

Shadowbase ZDM eliminates planned downtime

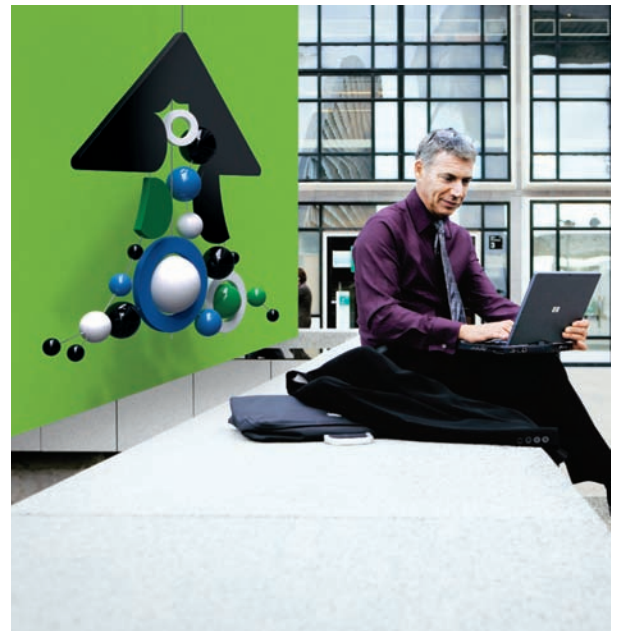
Shadowbase ZDM completely eliminates planned application downtime and improves overall application availability. A large amount of system downtime is due to planned outages required for upgrades, maintenance conversions or migrations. The requirement could be for an operating system upgrade, a new application release, database maintenance or installing new hardware. With Shadowbase ZDM, these interruptions are handled without denial of application services to end users, therefore 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.

Shadowbase ZDM eliminates business risk

As part of the ZDM process, the new environment is synchronized with the production environment and all functions are verified before the cutover occurs. Shadowbase ZDM thus eliminates the risk of the classic “big bang” conversions and outage windows by allowing the users to cut over, either gradually or all at once, to a known working environment.

Solutions 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
- Migrations – in increments, or initially to an active/active environment
- Operations – risk-free failover/recovery testing, or run and maintain unattended

Working together with HP

BI solutions enable you to tap into the vast pools of information residing across your enterprise. To achieve this goal, today’s BI solutions provide sophisticated software—driven by high-performance hardware—that can integrate, analyze and report on diverse data to enable more timely and informed business decisions. Working with HP, you can implement scalable, available and cost-effective BI solutions that deliver flexibility and performance to provide the intelligence you need, when you need it, and increase the value of your information assets.



Shadowbase ZDM

The new environment is built, synchronized, tested and verified without affecting the current end user production application. 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 facilities 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 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

Our solutions are supported on HP Integrity NonStop servers. HP NonStop technology has always been the best at what it does: running the most critical business applications while maintaining the most stringent service levels for organizations that require the highest levels of availability and scalability, with standards based components for cost savings and investment protection. The processing power in HP Integrity NonStop server is provided by state-of-the-art Intel Itanium processors. Each processor is considered a separate node, making it possible to configure a NonStop server so that up to 50 percent of the nodes can fail without a single virtualized service failing.

Operating systems supported

To provide always-on availability in our round-the-clock marketplace, our applications are optimized for HP Integrity NonStop servers, the gold standard for business continuity. Known for running the world's most demanding enterprise applications, HP NonStop system software complements the open, parallel architecture of HP NonStop servers, providing highly reliable, scalable computing within an open systems environment.

Building on the value of strong relationships

By working collaboratively with HP, we can leverage the necessary resources, experience and knowledge to deliver tailor-made solutions that drive better business value. For more than 50 years, HP has thrived on innovation, holding a proven track record of success in virtually every market, customer segment and region worldwide. Together, we use innovative technology and services to design solutions that meet today's business challenges, while helping you prepare for tomorrow's.

For 30 years, Gravic, Inc. has been a leader in providing database replication solutions. Gravic pushes the technological evolution with its patented flagship Shadowbase line of replication solutions. Gravic's extensive patent portfolio, Breaking the Availability Barrier book series, and comprehensive published whitepapers and articles, reinforce the expertise of Gravic's staff and technology.

Working together to drive success

By combining standards-based and modular technologies with our leading-edge applications and comprehensive services portfolio, you gain a powerful, flexible solution that meets your business needs today and dynamically adapts as those needs change. We provide an agile foundation for building a highly responsive enterprise that drives better business outcomes and promotes your long-term success.

Technology for better business outcomes

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To learn more, visit www.hp.com
www.gravic.com/shadowbase/zdm.html

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