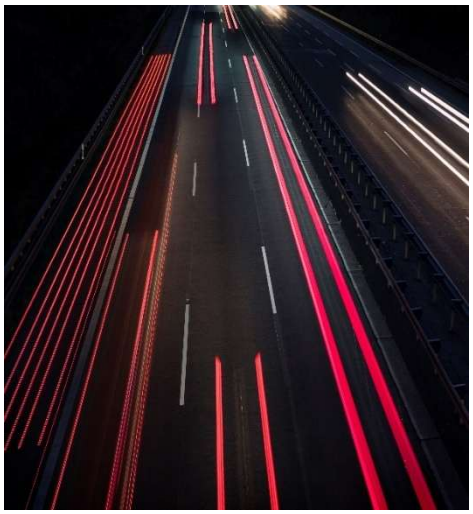
Shadowbase DoLockStep (DLS) Synchronization Facility

Coordinate application processing with data replication activity to preserve critical data across catastrophic system failures



Mismatched data between systems means data corruption, jeopardizing your business, and wreaking havoc on your customers.

Most Nonstop customers have a backup system and a replication engine. However, almost none synchronize their applications' processing with their replication engines – they work asynchronously, independently from each other.

How do you know if your company's high-value data was actually saved on the backup system before continuing processing on the source?

"With Shadowbase DoLockStep, we can trust our source and target system to remain synchronized.

We like the versatility compared to RDF DOLOCKSTEP."

-European Nonstop Customer

Customer example

European Inter-bank Transfer Provider

A large European bank provides a high-value banking, inter-bank transfer, and settlement application that runs on HPE Nonstop. Ensuring data accuracy and consistency within its different production data centers is critical to protecting its customers' data.

The bank relies on Shadowbase DoLockStep in its production environment to ensure results from its processing have been successfully delivered to the target system before executing the next set of critical functions.

This is especially important to help ensure these high-value transactions servicing inter-bank transfers are safe-stored on the target system such that, if a failover were to occur, none of the critical financial data would be lost, and that application services can continue on the target system.

This new architecture gives the bank peace of mind that its customers' high-value funds transfers, critical application data, and application services would continue to survive despite a disaster or unpredictable event that renders the source system inaccessible. Otherwise, losing the source would normally result in catastrophic data loss, possibly causing regulatory fines and tarnished reputation.

Shadowbase DoLockStep technical advantages

Know your high-value data is protected	A callable API can notify your application when all application data generated up until that point has been successfully delivered and safe-stored on the target system.
Simplify operational management	Before planned system maintenance or for example processing high-value transactions, issue a Shadowbase DoLockStep operation to confirm that all your key application data successfully arrived on the target system up until that point.
Transaction Tracking (TRACKTX)	*Transaction tracking* via Shadowbase software's TRACKTX checkpointing and other unique features properly tracks all data that is replicated onto the target system. During replication interruptions, such as a manual stop/restart or automated failure/restart, transaction tracking ensures all replicated data is only applied once into the target database.
Scalability and flexibility for high-performance	Shadowbase DoLockStep supports isolated and parallel operations which enables scalability to meet the most demanding customer environments with many application processes with high transactions per second (TPS) rates. Each application call is independent of any others, and it is scalable since it can be called simultaneously by many application processes in parallel.
Straightforward replacement of the RDF DOLOCKSTEP function	Similar to RDF DOLOCKSTEP, the customer's application invokes the Shadowbase DoLockStep API to start a coordination sequence that suspends the calling application until the coordination operation has completed, an error occurs, or the operation times out. The application can then take appropriate action based on the result. Shadowbase DoLockStep has been designed as a direct replacement for the RDF DOLOCKSTEP call. Contact Gravic for additional information.
Included with Shadowbase Zero Data Loss (ZDL) solution	The Shadowbase DoLockStep feature is included with the Shadowbase Zero Data Loss solution.

Coordinate your application processing with replication and know whether high-value data is securely safe-stored on your backup system, so the data is there when you need it most.

Contact Gravic or your HPE Nonstop sales team for more information

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Shadowbase Solutions for HPE Nonstop software is HPE's strategic *go-forward* data replication solution

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