



## INFRASTRUCTURE SOLUTIONS

# NETAPP REPLICATORX™ FOR NONDISRUPTIVE HETEROGENEOUS BLOCK DATA MIGRATION

### KEY BENEFITS

#### Increased Flexibility with Heterogeneous Replication

- Single tool migrates data across mixed, multi-vendor storage
- Requires no changes to existing production infrastructure
- Has zero impact on existing policies and procedures

#### Minimal Disruption and Downtime

- Less than 3% CPU overhead on production system
- Production data on primary storage is accessible while data is being replicated
- Short downtime required for cutover to new storage

#### Ensures Data Integrity

- Proven, reliable enterprise-class replication solution
- Up-to-the-second replicas with enterprise-wide data consistency
- Enables online target site testing, with continued access to production systems

Enterprises continually need to migrate data due to data center consolidations, infrastructure upgrades, and operational policy. NetApp ReplicatorX enables organizations to migrate block data across heterogeneous storage infrastructures. This enterprise-class, data-migration solution replicates block data from any storage to any storage, across any distance, without disrupting operations or causing application downtime.

### THE CHALLENGE:

#### Reduce Operational Cost and Risk

Data migration has become one of IT's greatest challenges. Whether due to data center consolidation, infrastructure upgrades, or operational policy, data migration tends to be inherently disruptive and potentially risky. Offline data migration, for example, requires significant downtime and isn't feasible when large amounts of data are involved—there just isn't enough time in a weekend. And offline data migration utilities typically require manual processes that are resource intensive, resulting in costly overtime and increasing the likelihood of operator errors that increase downtime. In addition, many online data migration tools cannot be deployed without disrupting ongoing operations and impacting network performance. Moving data across disparate storage architectures—internal disk, DAS, FC SAN, or IP SAN—attached to servers running different operating environments is a complex undertaking that puts ongoing operations and data at risk. Data migration across FC SAN environments is further complicated by technical incompatibilities that result from dependencies within the architecture.

### MIGRATE BLOCK DATA WITH NETAPP REPLICATORX

Enterprises that need to migrate data in heterogeneous storage environments can now do it without disruption using NetApp ReplicatorX. NetApp ReplicatorX can continuously replicate any block data—application, database, file system, or system data—across any storage architecture (FC SAN, IP SAN, DAS, or internal disk), from any vendor, attached to any server (Windows®, UNIX®, Linux®, or virtual machines), and over any distance using an existing IP network.

#### Increased Flexibility with Heterogeneous Replication

Heterogeneous replication is especially critical for large-scale data center consolidation and migration projects in which applications are deployed on different server and storage architectures. Without a truly heterogeneous tool, data migration in mixed storage environments using multiple tools can be difficult.

#### Minimum Disruption and Downtime

NetApp ReplicatorX requires no change to the existing production infrastructure, so production data can be migrated without impacting existing data migration policies

and processes. Unlike fabric-based migration tools that tend to be disruptive when inserted into the data path, ReplicatorX (Host Edition) can be easily and nondisruptively deployed. NetApp ReplicatorX is nondisruptive in terms of performance; our innovative architecture puts the processing load on target systems, and our host-based driver uses less than 3% of host CPU cycles.

NetApp ReplicatorX results in minimal downtime. Production data is accessible while data is replicated. Cutover to newly deployed target storage is quick because the target storage has the most up-to-date, consistent copy of the production data ready to be accessed in a production environment.

### Ensures Data Integrity

NetApp ReplicatorX performs continuous replication at the source site, delivering up-to-the-second data currency. It guarantees data consistency across dependent volumes, federated databases, and applications that span multiple servers. NetApp ReplicatorX employs fault management at multiple levels to maintain session and data integrity across multiple server, storage, or network failures.

With NetApp ReplicatorX, administrators can test the integrity of the replicated data as it is being replicated—without disrupting replication or access to the production system—by testing point-in-time copies created for any session, at any time, on the target system. NetApp ReplicatorX is

a highly automated, proven, and reliable migration tool that eliminates the possibility of missing, lost, or corrupted data.

NetApp ReplicatorX provides easy-to-manage, cost-effective enterprise-class replication for data migration in heterogeneous storage environments. It replicates block data across any storage architecture from any vendor, attached to any server, over any distance—all while accelerating deployment and reducing operational costs and risk through automation and simplified management.

### ABOUT NETWORK APPLIANCE

Network Appliance is a leading provider of innovative data management solutions that simplify the complexity of storing, managing, protecting, and retaining enterprise data. Market leaders around the world choose NetApp to help them reduce cost, minimize risk, and adapt to change. For solutions that deliver unmatched simplicity and value, visit us on the Web at [www.netapp.com](http://www.netapp.com).

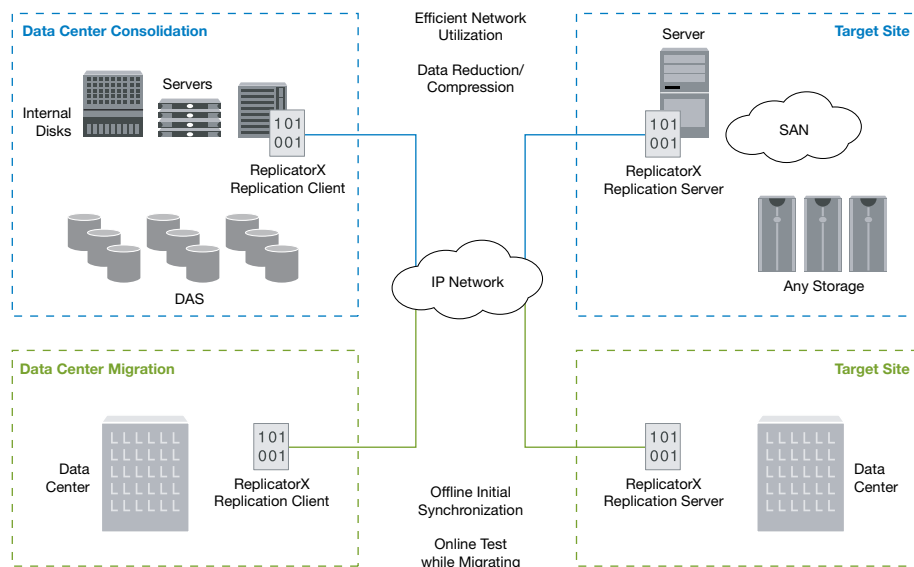


Figure 1) NetApp ReplicatorX: Nondisruptive Heterogeneous Block Data Migration Over Any Distance

