# Rocket UniVerse & Rocket UniData

## High Availability and Disaster Recovery

## Reliable, Scalable, Simplified Protection for Data and Applications

- Avoid costly system outages and reputational damage

- Add new workloads without impacting production performance

- Limit damage from disasters by instantly using data from a constantly-updated replica

Organizations worldwide depend on the Rocket® UniVerse and Rocket® UniData MultiValue databases for building reliable, scalable, and cost-effective applications. However, today's demand for new applications can put a strain on production servers, impacting performance and increasing the risk of outages. Fire, flood, or other disasters can also knock out servers, bringing business to a halt. The cost of an outage can be thousands of dollars per minute. Many organizations never recover completely, or are out of business within a few years. Proper preparation can mean the difference between returning successfully or closing the doors.

The Rocket UniVerse and Rocket UniData High Availability and Disaster Recovery (HA/DR) solutions make it easy and affordable for you to protect applications and data on an ongoing basis.

## ▶ Avoid costly system outages and reputational damage

Whether you're driven to deliver nonstop application and data availability by revenue, customer service, a global employee population, or other demands of a 24x7 business, Rocket makes it affordable and practical to deploy a HA/DR strategy that keeps data protected and recoverable in the event of the unexpected. At the heart of the UniVerse and UniData HA/DR solution is highly efficient replication—even for large data volumes and long-distance replication to remote servers. You can pace the speed of delivery from the production server to match the ability of subscribing servers to absorb updates. You can also delay replication of data after an update, so if you've accidentally committed data to the database, you can prevent it from replicating. This feature is also useful for keeping malicious updates out of replicas. By tuning cross-group transactions, you can achieve significant performance gains when replicating large volumes of transaction data across multiple replication groups.

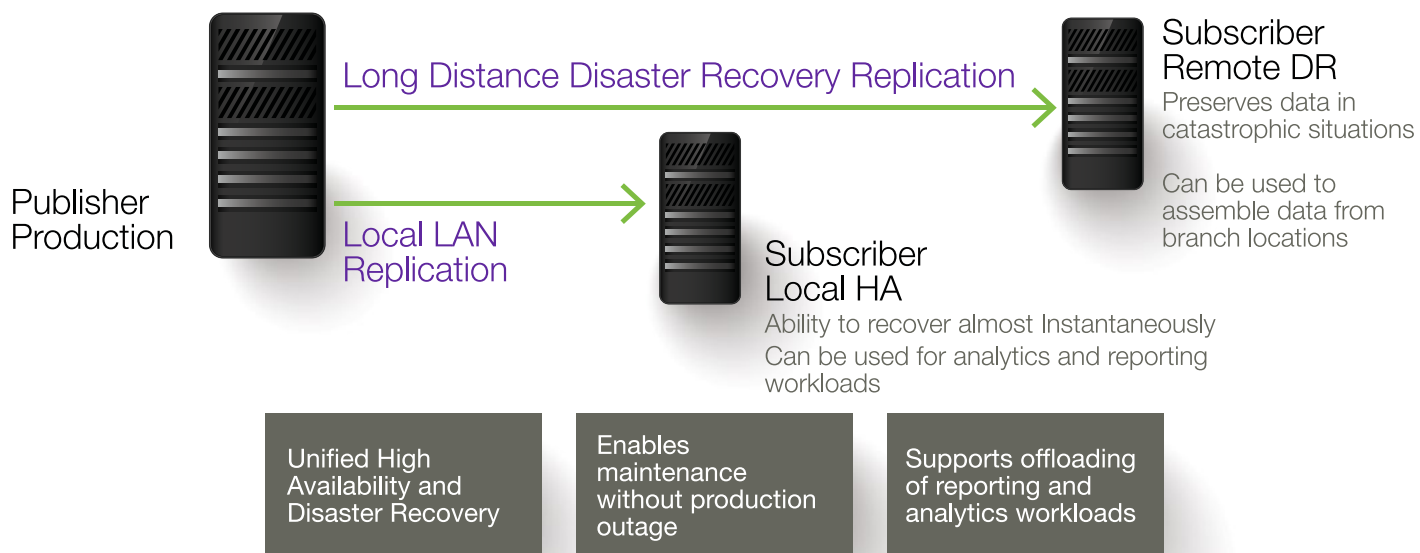## ▶ Add workloads without impacting performance

Users and senior management are demanding new capabilities, such as running Business Intelligence (BI) tools against UniVerse and UniData data, or using extraction tools to move data out of the database for analysis or processing. These requests often create new workloads for your UniVerse and UniData system that could impact production application performance.

Rocket UniVerse and UniData HA/DR replication gives you different ways to provide business users with the applications they need—while improving system availability. You can cost-effectively build a cluster by adding a second server for extraction jobs or BI. You can also use any subscribing server in a UniVerse and UniData replication system for reporting, allowing that workload to be offloaded from the primary server and delivered in read-only mode by the subscribing server. The production system won't be impacted by these new loads, and you can continue to meet your SLAs while satisfying new user demands.

## ▶ Limit damage from disasters by instantly using data from a constantly-updated replica

If your primary data center (or a primary UniVerse and UniData server) is lost, being able to recover business operations from a replica could save you hours of productivity, minimize lost revenue or customers, and ensure business continuity. Rocket UniVerse and UniData HA/DR native real-time replication offers protection that periodic backups or SAN replication don't provide. You gain a fast, scalable, and highly configurable way to deliver file-, record-, and account-level operations performed on the primary server—together with transaction updates—to one or more secondary servers.

With UniVerse and UniData HA/DR, you can create a UniVerse or UniData server at a remote location, then use replication to keep the system in synch with production. In the event of a disaster at your primary data center, you can fail over to the remote site manually or automatically. Data transmitted to the remote server is minimal, thanks to the replication's naturally compressed format. Any subscribing server in a UniVerse or UniData replication system can be used for reporting, allowing the workload to be offloaded from the primary server.

**Publisher Production**

Long Distance Disaster Recovery Replication

Local LAN Replication

**Subscriber Local HA**
Ability to recover almost Instantaneously
Can be used for analytics and reporting workloads

**Subscriber Remote DR**
Preserves data in catastrophic situations

Can be used to assemble data from branch locations

Unified High Availability and Disaster Recovery

Enables maintenance without production outage

Supports offloading of reporting and analytics workloads

**Figure 1:** Rocket UniVerse and Rocket UniData data replication helps meet both High Availability and Disaster Recovery needs. Use a local replica to assure availability and performance for business tasks such as BI, and a replica at another location for data protection.

Many organizations need to support self-service channels for customers and access to business systems for employees on a 24x7 basis. Organizations use UniVerse and UniData replication to redirect traffic to a subscribing server, and enable maintenance of hardware, operating systems and of course the database itself on the publishing server. Then they repeat this process until all replicas have been updated. Through the use of replication, organizations can meet their service level agreements for uptime, and keep their systems healthy.

With Rocket UniVerse and UniData HA/DR, business intelligence, data integration, and other workloads can be handled by a replica instead of your production system. You gain the best of both worlds: the capabilities your business needs, and the performance your production users demand.

Customers using Rocket UniVerse and UniData application platforms need to be sure these systems are recoverable in the event of a disaster. Rocket HA/DR capabilities let you establish a Disaster Recovery replica to use in recovering your UniVerse and UniData solution in the event of a disaster.

# Tech Specs

## SERVER SPECIFICATIONS

- AIX 7.1, 7.2
- CentOS 6.0, 7.0
- HP Itanium 11.3.1
- Red Hat Enterprise Linux 6, 7
- Sun Solaris SPARC 11
- Sun Solaris Intel 2.11 (UniVerse only)
- SUSE Linux 11
- Windows 7, 8.1, 10, 2008, 2012, 2016

All UniData releases from 8.1 onwards are 64-bit only

All UniVerse releases from 11.3.1 onwards are 64-bit only

## RELATED PRODUCTS

- Rocket® Aldon Lifecycle Manager 2.2
- Rocket® Discover 1.6.0
- Rocket® SB/XA
- Rocket® U2 Toolkit for .NET 2.2.1
- Rocket® U2 Web DE
- Rocket® wIntegrate

## DB TOOLS

- DBTools 4.2.0
- Rocket® U2 Common Clients 5.1.0

## SUPPORTED FRAMEWORKS AND PROTOCOLS

- callHTTP support
- External Database Access (EDA) through SQL Server, Oracle, DB2
- HMAC – SHA1/SHA2 support in BASIC
- IPv4/IPv6 dual-stack enabled
- NLS/I18n support
- OAuth 2.0 support
- TLS v1 / 1.1 / 1.2

**Rocket**

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