



DATASHEET

Rocket® UniVerse®

High Availability and Disaster Recovery

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

- Avoid costly system outages and damage to your reputation
- Add new workloads without impacting production performance
- Limit damage from disasters by instantly using data from a constantly-updated replica
- Reduce the risk of file corruption or lost data

Organizations worldwide depend on the Rocket® UniVerse® MultiValue database to build reliable, scalable, and cost-effective applications. However, today's demand for new applications can strain production servers, affecting performance and increasing the risk of outages. Fires, floods or other disasters can also knock out servers, bringing business to a halt.

An outage can cost you thousands of dollars per minute when it comes to lost revenue. Many organizations that experience an outage never recover completely, or even go out of business within a few years. Proper preparation can mean the difference between a successful return to normal operations, or closing the doors.

The Rocket UniVerse High Availability and Disaster Recovery (HA/DR) solution makes it easy and affordable to protect your applications and data on an ongoing basis. After an unforeseen disaster, the Recoverable File System (RFS) will get your system up and running quickly, without losing your transactions or data.





▶ Avoid costly system outages and damage to your reputation

Whether your need to support nonstop application and data availability is driven by revenue, customer service, a global employee population or other demands of a 24x7 business, we make it affordable and practical to deploy an HA/DR strategy that keeps data protected and recoverable when the unexpected happens.

Highly-efficient replication is at the heart of the UniVerse HA/DR solution—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 subscribing servers' ability to absorb updates. You can also delay data replication after an update, which can help prevent errors created by accidentally committing data to the database. Blocking replication is also useful for keeping malicious updates from propagating. Tuning cross-group transactions helps you achieve significant performance gains when replicating large volumes of transaction data across multiple replication groups.

▶ Add workloads without impacting production performance

Businesses constantly demand new capabilities, such as the ability to run business intelligence (BI) tools against UniVerse application data or use extraction tools to move data to other operational databases for analysis or processing. These requests can create new workloads that affect production application performance.

Rocket UniVerse HA/DR replication gives you several ways to provide business users with the applications they need, while also improving system availability. You can build a cluster cost-effectively by adding a second server to handle extraction jobs or BI needs. You can also use any subscribing server in a UniVerse replication system for reporting, offloading that workload from the primary server and delivering it in read-only mode to the subscribing server. In addition, you can use a replica to share UniVerse data with all your enterprise data systems, including applications developed on other platforms. The production system won't be affected, 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 server) goes offline, the ability to recover business operations from a replica could save you hours of productivity, minimize lost revenue or customers, and ensure business continuity. Rocket UniVerse HA/DR offers protection that periodic backups or SAN replication don't, with native, real-time replication. You gain a fast, scalable, and 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 HA/DR, you can create a UniVerse 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 transmission will be minimal, thanks to the replication's compressed format. Any subscribing server in a UniVerse replication system can be used for reporting, allowing the workload to be offloaded from the primary server.

▶ Reduce the risk of file corruption or lost data

If you lose a single transaction, you've lost one too many. Your customers rely on you to execute transactions properly and keep track of their data, and the individual with a one-hundred-dollar account balance will be no less upset by a loss than the business whose last transaction was worth a million dollars. With the UniVerse Recoverable File System, you can help keep your customers' confidence.

Don't waste expensive, limited IT resources to manually weed-out and repair damaged files. A critical part of a UniVerse HA/DR strategy, RFS keeps track of files not yet committed to the disk and brings these systems back online quickly in the event of a system crash or power failure, reducing the risk of file corruption. By comparing before-and-after-image log files, RFS is able to restore files back to the last complete transaction. RFS automates fast restoration so you can get your business back up and running quickly.

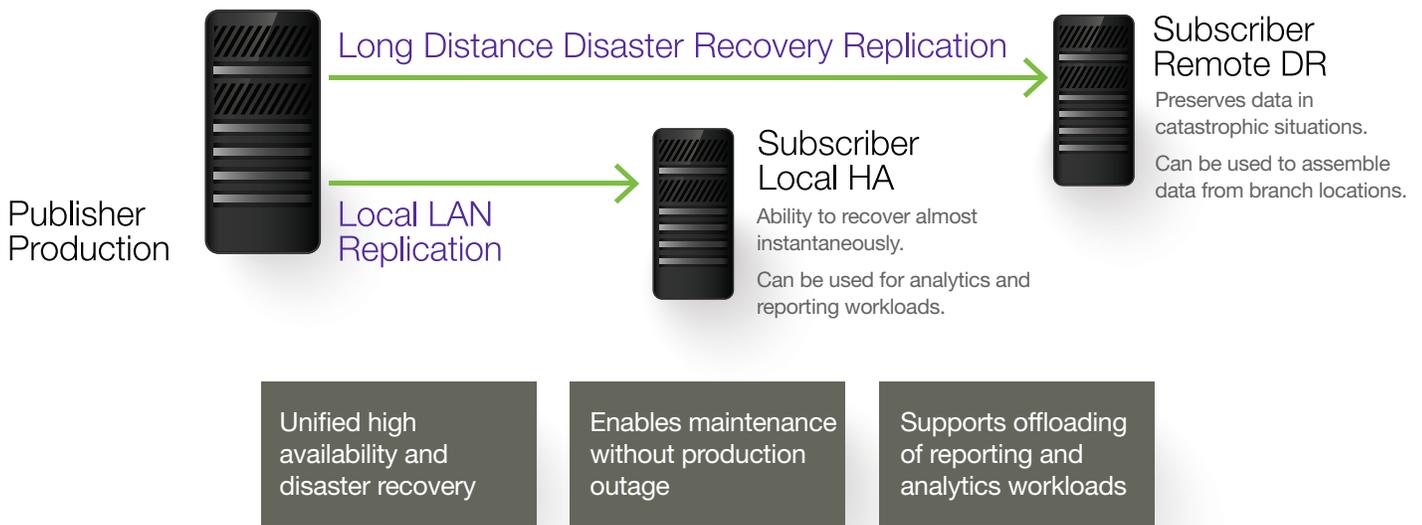


Figure 1: Rocket UniVerse data replication helps meet both high availability and disaster recovery needs. Use a local replica to assure availability and performance for business tasks such as BI, and a replica at another location for data protection.

Many organizations provide self-service access to both customer-facing applications and internal employee-facing systems. These systems need to be available 24x7. Using replication, these organizations can meet service level agreement commitments for uptime and keep their systems healthy. Use UniVerse replication to redirect traffic to a subscribing server to facilitate maintenance of hardware, operating systems, and even the database itself on the publishing server. Then repeat this process until all replicas have been updated. Using the Recoverable File System, fast restoration is automated so you can get your business back up and running quickly.

With Rocket UniVerse HA/DR, business intelligence, data integration and other workloads can be handled by a replica system instead of your production system. Gain the capabilities your business needs, without disrupting the performance your users demand from the production system. With Rocket HA/DR you can protect your business, give your users the new capabilities they need, and maintain or improve the reliability of your production UniVerse system.

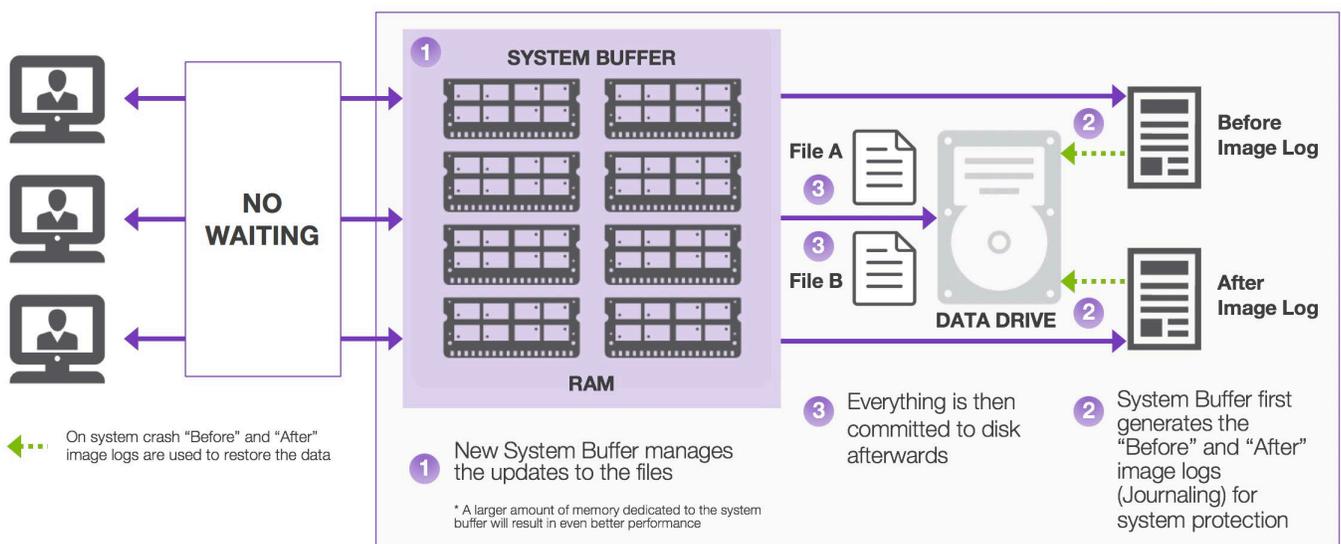


Figure 2: UniVerse database processing engine that supports high efficiency, high availability, and RFS



► Tech Specs

SERVER SPECIFICATIONS

- AIX 7.1, 7.2
- Amazon Linux AMI 2016.09, 2017.03
- CentOS 6.1+, 7.0
- Oracle Linux x86 7.3, 7.4
- Red Hat Enterprise Linux, 6.1+, 7
- SUSE Linux Enterprise Server 11(SP4), 12 (SP1)
- Windows 10, 2012 (R2), 2016, 2019

All UniVerse releases from 11.3.1 onwards are 64-bit only

SUPPORTED FRAMEWORK & 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
- SSL v1.0.2m
- TLS v1 / 1.1 / 1.2

SUPPORTED ROCKET PRODUCTS*

- Rocket® Aldon Lifecycle Manager
- Rocket® U2 DBTools
- Rocket® SB/XA
- Rocket® U2 Common Clients
- Rocket® U2 Toolkit for .NET
- Rocket® U2 Web DE
- Rocket® wIntegrate

ROCKET U2 COMMON CLIENTS

Easily connect to U2 databases using standard drivers and native APIs for Rocket U2 databases. Includes:

- ODBC (Open Database Connectivity), a standard API for many DBMSs
- JDBC (Java Database Connectivity), a pure NLS-capable Java driver
- OLEDB (Object Linking and Embedding Database), a Microsoft API
- UOJ (UniObjects for Java)
- InterCall, for any C client
- UCI (UniCall Interface), an SQL call-level interface

ROCKET U2 DBTools

Eclipse-based tools for programming and administration. Includes:

- U2 RESTful Web Services Developer (U2 REST)
- U2 Basic Developer Toolkit (BDT)
- Extensible Administration Tool (XAdmin)
- U2 Web Services Developer (U2 WSD)

* Please see the UniVerse Product Availability Matrix at: <https://rbc.rocketsoftware.com/matrix.asp> for version compatibility details.



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