



Fault Tolerance with Disaster Recovery for End-to-End Application Availability

everRun MX Extend

- Total protection: integrates fault tolerance with disaster recovery
- Prevents downtime due to local failures with fault tolerance
- Protects against site-wide outages with disaster recovery
- Complete automation and transparent response to both failures and disasters
- Unmatched price-performance for both FT and DR; fits any budget
- Power with flexibility: no hardware or hot-site restrictions
- Protects all components in the application infrastructure
- Flexible replication options
- Supports testing geographic failover scenarios
- Real performance without trade-offs
- Requires no application modifications or complex scripting

Welcome to The Always-On World

We live in an always-on world. Not only do your users and customers expect around-the-clock access to your business – they demand it. To be successful, you must meet the needs of the always-on world by being an always-on business. Organizations today can no longer afford to accept system downtime as standard practice.

Are You Still Reacting to Failures?

If you're like most organizations, you react to system failures. When a failure occurs systems go down, applications become unavailable to users, business operations stop, and IT staff is called upon to perform a recovery. This downtime can have a huge impact on sales, mission critical operations, employee productivity, and client satisfaction. Nevertheless, you settle for downtime in the event of a failure because you really have had no choice. Another often overlooked aspect of the reactionary approach relates to local and regional disasters. Many organizations look at local or regionalized disaster events as something they will deal with when it happens, this can mean the difference between being down for minutes vs. hours or days.

Are you disaster ready?

Ensuring your critical applications can sustain a local system failure is only one half of the equation. Being prepared for a larger disruption is critical to delivering in the always on world. Preparing your organization for regional power disruptions, natural disasters, or other localized

emergencies is a critical aspect of any business continuity plan.

Introducing Application Availability With everRun MX Extend

Marathon's everRun MX Extend is a solution designed to meet and address the complete application availability spectrum: unlocking the power of Multiprocessor/Multi-core Fault Tolerance for local protection and combining it with industry leading replication technology to address off-site disaster recovery requirements. everRun MX Extend is the only complete availability solution that addresses these two critical components of application availability and business continuity.

How everRun MX Extend Works

everRun MX Extend provides full fault tolerance to applications that require 100% uptime, combined with replication technology that allows users to implement a disaster recovery strategy by replicating application environments to a secondary location. By combining these two solutions, everRun MX Extend helps both large and small IT organizations address the full range of threats to application availability. By also combining these two technologies under a single vendor, everRun MX Extend presents a unified solution to a very complex and multi-tiered problem, giving IT organizations the full range of protection against application downtime.

Key Features

Full Fault Tolerance

everRun MX Extend handles system, network, and disk I/O failures without IT intervention and with zero downtime. Self-healing operations do not require IT intervention or specialized skills.

Symmetric Multiprocessor and Multi-core / Support

everRun MX is the only software-based fault tolerance solution that protects all Windows applications including applications that require symmetric multi-processor / multi-core support, to meet an organization's growing technology and user requirements.

Data Rewind and Recovery Testing

everRun MX Extend allows you to roll back your operating environment to a specific point in time. This gives you point and click access to data as it existed minutes, hours even days ago. everRun MX Extend also incorporates a point and click recovery testing model where tests can be scheduled and results verified. No longer will you need to wonder if your recovery process will deliver valid data.

ComputeThru™ Technology

Marathon's patented ComputeThru technology guarantees application availability by ensuring proactive recovery readiness through redundant systems and availability, monitoring to create a single "always-on" application instance. everRun MX Extend software operates with lockstep redundancy of the hardware, data, and networks to provide automated fault management. In the event of a failure, the system computes through without downtime.

Software Solution

everRun MX Extend is a software-only solution that is easy to deploy and use, for organizations with limited IT resources. It does not need application modifications or scripting to deploy, and runs on commodity, off-the-shelf x86 hardware platforms.

Automated Solution

An automated solution, everRun MX Extend enables hands-off operation, which is ideal for organizations with minimal IT staff. everRun MX Extend synchronizes, monitors, corrects and repairs problems in all components within the application environment to prevent downtime. The disaster recovery aspects of everRun MX Extend will monitor the big picture, making sure that in the event of a regional disaster, operations can seamlessly be run on a second site, which can be one mile or one thousand miles away. This automated failover process takes place without staff intervention for both local fault tolerance, and site level disaster recovery.

Geographical Protection

With everRun MX Extend, your application availability solution will reach beyond the local datacenter. everRun MX Extend adds offsite replication along with site level failover protection. This element combined with local fault tolerance ensures world-class uptime.

Holistic

everRun MX Extend protects all components in the application infrastructure, including servers, all Windows applications, off-the-shelf storage and network - both locally and via off site data replication. This eliminates the

need for multiple point solutions for availability, allowing easier administration and significant cost savings.

Uses Off-the-shelf Storage

everRun MX Extend is completely hardware agnostic, allowing you to leverage any off-the-shelf storage (direct attached or SAN) solution to help save money while providing the flexibility to scale your environment as it grows.

Automated Site Level Failover

everRun MX Extend provides automated site level failover and simple push button fail back, allowing IT staff to quickly react to site level disasters, minimizing application downtime, and maintaining business continuity.

Flexible Replication Options

Multiple options exist for synchronization of data between sites including offline sync, which allows organizations to sync application data locally, via removable media, and use this media to sync DR servers. It also supports Change Block Tracking, syncing only the data blocks that have changed, making the replication process bandwidth friendly. everRun MX Extend even offers continuous, scheduled, or ad-hoc replication options.

Learn More

Application Availability with everRun MX Extend gives organizations with limited IT resources an automated solution to keep applications available during failures to ensure continuous business operations. Organizations no longer need to settle for downtime, and can achieve the highest level of availability in a simple, highly affordable solution. Contact Marathon today to learn more.

everRun MX Extend Suggested Configuration

- A pair of standard x86 Intel Servers (Local Operating Environment)
- Minimum of one replication target (Physical, Virtual, or Cloud)
- Minimum 4GB of RAM or more recommended
- Intel VT Enabled CPU Chipset
- Local or SAN storage (Fiber Channel or iSCSI)
- 4 x 1GB Network Ports
- Supported Guest OS Include
 - Windows Server 2003 SP2 (32 & 64 Bit)
 - Windows Server 2008 and 2008 R2

