



MAXXESS

MARATHON

MAXXESS and Marathon Technologies have partnered to deliver the highest level of availability using Marathon's everRun MX® software to protect eFusion™, a powerful security management software package that provides multitasking support and flexibility. The open architecture enables you to build a security management system or to integrate with existing card readers and alarm monitoring devices. The key features of eFusion give you the power to customize your access control system to your specific needs — without requiring advanced technical expertise.

**COMPLETE eFusion PROTECTION**

everRun MX software is always on. It eliminates single points of failure, protecting eFusion from:

- Unplanned server, storage or network failures
- Planned downtime due to reconfiguration, hardware, and software upgrades
- Data loss and corruption
- Site failures and major disasters

With the flexibility to implement the configuration that best fits your business requirements, everRun MX is a great choice for protecting any eFusion environment.

**HOW everRun WORKS**

everRun MX provides full fault tolerance to applications that require 100% uptime. Using patented technology, everRun MX combines the physical resources of two standard Windows servers into a single operating environment with complete redundancy of all underlying hardware and data. everRun MX presents these redundant servers as a single operating environment to keep applications running in the event of component or system failures.

The everRun MX software operates in lockstep ensuring redundancy of the hardware, data, and networks, to provide automated fault management and true continuous availability.

**HOW eFusion WORKS**

eFusion™ is a powerful security management software package that provides multitasking support and flexibility. The open architecture enables you to build a completely new security management system or integrate existing card readers and alarm monitoring devices. eFusion's simple approach to system configuration and expansion gives you the power to customize your access control system to your specific needs—without requiring advanced technical expertise. This makes eFusion ideal for a wide variety of applications such as multi-tenant office buildings, hospitals, government facilities, manufacturing facilities, airports and other security sensitive installations.

**EASE OF MAINTENANCE**

Planned downtime is often costly as unplanned downtime, requiring applications to be taken offline for maintenance and updates. everRun MX allows maintenance to be performed without any interruption of service. When maintenance is completed, the server is simply added back into the everRun MX environment where it automatically synchronizes with the active server. Failed components are simply removed and replaced without affecting ongoing application operations.

# Marathon Technologies and MAXXESS

## Ensuring your security management systems are always on

**Introducing Application Availability with everRun MX**

Marathon's everRun MX is the world's first software-based, fault tolerance solution that supports single and symmetric multiprocessor and multi-core Microsoft applications. Now businesses with limited IT resources can have a simple and affordable solution to keep applications available during system failures to ensure continuous business operations. With everRun MX, all your Microsoft applications can have fault tolerant protection for a cost that is lower than today's recovery-based, high availability solutions.

**All Gain. No Pain.**

- Software solution is affordable to own and simple to use.
- Automated system requires minimal IT staff to operate.
- Provides fault tolerant protection for symmetric multiprocessor (SMP) and multi-core workloads
- Protects all components in the application infrastructure.
- Scalable system grows with changing business requirements.
- Uses off-the-shelf hardware.
- Continuous uptime saves IT staff from performing recoveries.
- Requires no application modifications or complex scripting.

**Uses Off-the-shelf Storage**

everRun MX is completely hardware agnostic. It lets you use any type of off-the-shelf storage (Direct attached or SAN) to help save money and also move easily into the future.

**Single Operating Environment**

everRun MX is a single operating environment, with only one IP address, one hostname, and one MAC address. Users, clients, and applications need only to connect to one system and never have to make changes to this, even when failures occur.

**everRun Snapshots**

everRun Snapshots, provide backup of an operating environment at a single point in time. Exporting snapshots to a secure location provides a backup/recovery strategy as well as a means of protecting your application.

# Marathon everRun™ MX

Think of it as Infinite Availability™



# MAXXESS

MAXXESS Systems, Inc.

## Full Fault Tolerance

everRun MX 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.

## 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 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.

## 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.

## Software Solution

everRun MX 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 enables hands-off operation, which is ideal for organizations with minimal IT staff. everRun MX synchronizes, monitors, corrects and repairs problems in all components within the application environment to prevent downtime. It provides transparent redundancy, real time validation, automatic server synchronization, and self-healing capabilities to ensure continuous uptime in the event of a failure.

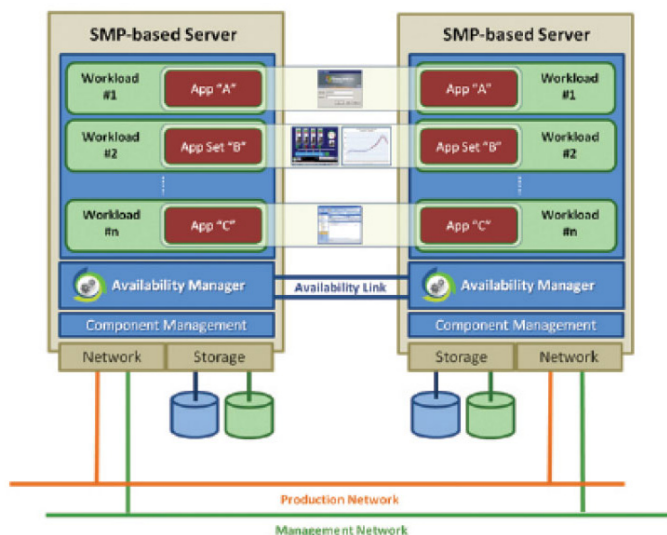
## Extended Page Table Support

everRun MX leverages the Intel Extended Page Table feature of the Intel Chipset architecture, enhancing the performance of protected workloads by giving the virtual machine direct access to its own page tables, with the ability to modify its own page tables and directly handle page faults. This reduces the virtualization overhead associated with these workloads, and improves overall performance.

## Holistic

everRun MX protects all components in the application infrastructure, including servers, all Windows applications, off-the-shelf storage and the network. This eliminates the need for multiple point solutions for availability, for easier administration and significant cost savings.

## Marathon everRun MX Configuration



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