



Marathon FTvirtual Server™

Marathon FTvirtual Server™ software enables standard Windows servers and blades to run continuously through faults, failures, and disasters without pause or failover.

This simple, affordable software delivers the industry's highest levels of availability for any Windows application by detecting and isolating faults and computing continuously through the most common sources of downtime. You can repair or replace failed components while remaining continuously online.

Zero Downtime

Marathon FTvirtual Server™ software unites two unmodified Intel-based servers or blades into a single, fully redundant configuration that appears to the network, applications, OS, and system administrators as a single fault- and disaster-tolerant server. All network connections are redundant and disks are mirrored.

Virtual Application Environment

Marathon software creates a virtual application environment that protects the application and the OS from hardware faults and other leading causes of downtime.

Marathon software synchronizes two virtual servers, completing all transactions on *both servers simultaneously*.

If one server (called a CoServer) fails or is destroyed by disaster, the other continues to operate uninterrupted with no loss of data, application state, or application availability.

Simple Administration

Marathon fault and disaster-tolerant configurations are as easy to manage as a single standard server. The Marathon management inter-

face provides comprehensive status information on the application environment, network connections, and physical devices.

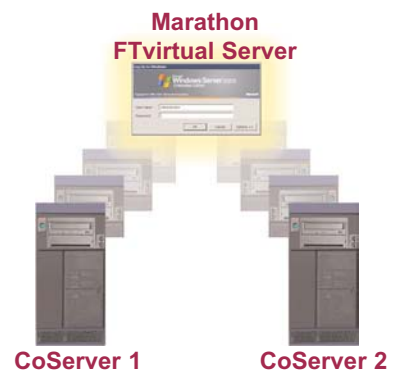
SplitSite® Option for Disaster Tolerance

Marathon's unique SplitSite® capability allows you to physically separate the two CoServers that comprise a Marathon configuration by up to 100 miles (161 kilometers), connecting them through a standard TCP/IP switched network. If one CoServer is destroyed, the other will continue to operate without pause or data loss. Two SplitSite versions are available:

- Short distance (up to 500 m) for intra-building or small campus deployments
- Long distance (500 m to 161 km) for campus or metro-WAN applications

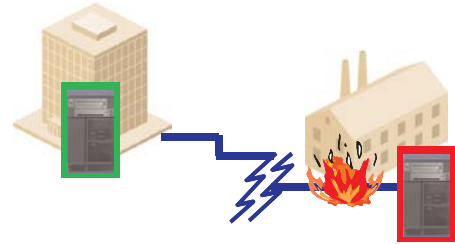
The SplitSite option uses quorum service software to ensure proper operation of the configuration in the event of a sitewide disaster or a simultaneous loss of all network connectivity between the CoServers.

The quorum service can be deployed on any Windows server accessible on the network by both CoServers, such as a network management server.



Marathon FTvirtual Server software delivers the highest levels of availability at the lowest total system cost. Other benefits include

- *Highest availability at lowest total cost.* You get continuous application and data access through failures with no loss of state or application context utilizing cost-effective industry standard Intel servers/blades and Marathon's simple, affordable software.
- *Reduced IT complexity.* No failover to manage and test. No scripting or specialized knowledge needed.



SplitSite Option for Disaster Tolerance

- *Increased productivity and decreased cost of downtime.* by eliminating unplanned downtime, in-flight data transactions are preserved through failures.

Minimum Hardware Requirements

- 2 Identically configured, Marathon-tested Intel-based servers each containing:
 - Pentium 4 Xeon processors (dual processors or single processors with HT technology)
 - 512 MB RAM
 - 1-2 Logical disks (either IDE/SCSI drives or logical drive in a RAID configuration)
 - 4 Network ports (2-Gigabit ports plus 2-10/100 or 10/100/1000 ports)
 - 1 IDE/SCSI controller or RAID controller
 - 1 CD-ROM (IDE or SCSI)
 - 1 Floppy drive
- 2 Crossover network cables
- 2 Straight-through network cables

Operating System Requirements

Microsoft® Windows 2000 (Server or Advanced Server) or Microsoft® Windows® Server 2003 (Standard or Enterprise Edition)

Supported Technology

Storage Support:	IDE, SCSI, iSCSI and Fibre Channel
Networking Support:	Fast and Gigabit Ethernet
Redirected Video Support:	Color Palette: 256 Colors Resolutions: 640 x 480, 800 x 600, 1024 x 768
Marathon Manager:	Windows 2000, XP Professional
Application Support:	Microsoft Windows Applications

SplitSite Minimum Requirements

- Marathon FTvirtual Server 6.1 software
- 2 CoServers on same subnet or vLAN
- Network connectivity to quorum server*
- 2 CoServer links via dedicated or routed IP connections
 - Minimum bandwidth: 45 Mb/sec, recommended: 155 Mb/sec per link
 - Maximum latency: 5 msec, recommended: msec
- Quorum server requirements
 - Local or remote Windows servers equipped with Marathon quorum service software
 - A single quorum service can support multiple SplitSite CoServer pairs
 - Multiple quorum servers can be deployed for redundancy

**For automatic quorum server discovery, CoServers and quorum server should be on same subnet or VLAN. Manual IP address configuration is available for separate subnets.*

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