

EVERRUN[®] ENTERPRISE SOFTWARE

CONTINUOUS AVAILABILITY VIRTUALIZATION software for always-on applications

For your solutions that must not fail — Stratus' everRun[®] Enterprise continuous availability virtualization software, prevents downtime, ensures business continuity and maintains data integrity by keeping applications running — easily and affordably.

everRun Enterprise *prevents* downtime, rather than merely recovering from it. That difference has a big impact on your revenue, costs, customer satisfaction and efficiency rates. With everRun, you can achieve your business continuity goals, comply with policies and regulations and meet your SLAs at a lower cost and with better performance than other fault-tolerant solutions.

everRun's quick and easy menu based installation and centralized management tools require no specialized skills saving you in IT overhead. And its comprehensive monitoring and notification features are the reasons we call it "worry-free computing".

everRun brings continuous availability to both single and multi-threaded Windows[®] and Linux[®] applications, without changes to your applications or your guest operating systems. It runs on industry standard x86 servers allowing you to utilize existing hardware and competencies within your organization. everRun provides a virtualization platform which allows you to run more applications with less hardware and protect them from downtime to further optimize efficiencies, simplify deployment and maximize investments.

Key Benefits

- Ensures business continuity, compliance and SLAs with no business interruptions or in-flight data loss by preventing applications from downtime onsite and offsite
- Provides cost-effective continuous availability efficiently with two off-the-shelf x86 servers and your choice of storage in one easy to use product. Other methods of achieving availability require additional servers, expensive storage options and a separate virtualization product
- Installs easily without modifications to applications or the need for specialized IT skills making it ideal for remote locations
- Protects symmetric multiprocessor (SMP) and multi-core workloads with both fault-tolerant and high availability from one solution for all your availability needs

"The everRun solution for P2000, offers us the extreme level of availability we need for our critical access control system at the airport."

Rob Benstein

Public Safety and Operations Director
Gerald R. Ford International Airport



How Does everRun Work?

Two servers are linked via a virtualization platform that pairs protected virtual machines together to create a single operating environment. We call this technology everRun Availability Services. If one physical machine should fail, the application will continue to run on the other physical machine without any interruptions or data loss. If a hardware component fails, everRun substitutes the healthy component from the second system until the failed component is repaired or replaced.

The I/O is automatically mirrored to the redundant server. This “statepointing” ensures all in-flight transactions as well as data in memory and cache is preserved — without machine restarts or data loss.

Key Features

Achieve continuous availability or high availability with everRun Availability Services

Availability Services lie at the heart of everRun. Complete with selectable availability, you can designate fault-tolerant availability or high availability for each VM. everRun ensures you won't have business interruptions because your applications co-exist on two virtual machines, without changes to your applications, data loss or machine restarts.

Protect against localized disaster with SplitSite® metro-wide offsite downtime prevention

SplitSite provides application availability across geographically separated sites using synchronous replication. For more information go to: www.stratus.com/splitsite.

Reduce your servers and operating costs with Virtualization

Utilizing KVM open-source virtualization technology, everRun enables you to consolidate physical servers and reduce your operating costs while protecting your applications from downtime with virtualization.

Get expandable and flexible storage with Multiple Storage Groups and everRun managed External Storage

Define your disk group priorities based on I/O and data to meet the needs of your applications. Set up your systems to meet your storage requirements with fibre channel and ISCSI external storage and internal storage.

Set up and manage your systems quickly and easily with the everRun Availability Console (eAC)

This web-based interface provides easy navigation to set up and manage systems including VM's, networking and storage.

Know when and how to take action with the Watchdog Service and 24/7/365 Support

Stratus' support center constantly monitors your system remotely, reacts to watchdog alerts and automatically sends a notification should a fault occur.

For solutions that must not fail — at the edge of the network, in any industry, in any size organization — everRun is the availability solution you can rely on to meet your ever increasing demands in this always-on world. Stratus is the proven leader in application availability and has been for over 35 years.

Professional Services

Stratus' Professional Services team is here to help you in many ways. Our portfolio encompasses a range of technology-enabled services that include comprehensive development and support for end-to-end, multi-vendor environments. These capabilities allow you to supplement your IT resources with customized solutions that address your unique business requirements.

Call on us for focused, modular services delivered by experts devoted to planning and implementing systems that protect the availability of your business operations. Our trusted availability advisors work with your staff to perform technology assessments, make recommendations and implement solutions. Most importantly, we help you define and manage an availability strategy and business continuity plan that exceeds business line requirements and industry compliance standards.

Availability Solution Differences

Compare the Stratus everRun Difference

	Standalone Server	Availability Solutions	everRun
Downtime & Impacts			
Unplanned downtime*	• 43+ hours per year	• 4+ hours per year	• <4 minutes per year
Unplanned downtime cost*	• \$7M	• \$700k	• \$10K
Maintenance downtime	• Extensive	• Requires restart	• None
Failure recovery time	• Hours	• Hours	• None
Data loss	• Yes	• Yes	• None
Recovery effort	• Manual	• Minimal	• Fully automatic, no restart required
Fault detection	• No	• Yes, automatic	• Yes, automatic
Deployment			
Set up time	• Hours	• Hours to days	• Hours
Administration	• NA	• Complex, manual	• NA
Expertise	• Minimal	• Significant	• Minimal

* Approximate yearly average. Assumption: one hour of downtime costs the average company \$163,671.14
 Source: Aberdeen Group Analyst insight, June 2013



Failure Protection		
Guest Continuous Availability	Fault-Tolerant Mode – No Restart	High Availability Mode
Disk	●	●
Network	●	●
CPU	●	* ◐
Memory	●	* ◐
Power	●	* ◐

* Guest restart necessity is dependent on the location of the fault.

everRun Specifications	
License Type	
Servers	1-2 socket Intel® Ivy Bridge and Sandy Bridge Intel based x86 server
RAM	Up to 384 GB
Virtual machines	Up to 24
Storage	Internal storage, JBODs, in guest iSCSI, everRun managed external iSCSI or Fibre Channel storage devices
Supported Operating Systems: Available On All Licenses (See Recommended Configurations below)	
Microsoft®	Microsoft® Windows Server® 2008 (32 bit), 2008 R2, 2012, 2012 R2 Windows® 7, 8 Windows Small Business Server 2011
Linux®	Red Hat® Enterprise Linux 6.5 < CentOS Linux 6.5 < SLES 11 SP3 64-bit Ubuntu 64-bit 12.04 and 13.1

everRun Support Service	
Service Component	Coverage
Access to software advice	24/7/365
Initial response time to critical issues	60 minutes
Access to availability engineers to address critical issues	24/7/365
Web-based support portal access	24/7/365
Software update subscription	Included
Watchdog service (remote monitoring and alerting)	24/7/365
Secure remote access	Included

Recommended Configurations for everRun

- One pair of x86 64 industry standard servers
- 8 GB RAM or more
- Intel® VT Enabled CPU Chipset
- Disk space of 50 GB or greater plus 10 GB for VM and data storage
- Two 10 GB network ports, two 1 GB network ports
- Supported guest operating system
 - o Microsoft® Windows Server® 2012 and 2012 R2
 - o Red Hat® Enterprise Linux 6.5

Please refer to the *everRun User's Guide* at <http://go.stratus.com/everrunUG> for a list of supported operating systems and the everRun Compatibility List at <http://go.stratus.com/everrunHCL> for a list of qualified systems and components.

Please review the *Compatible Guest Operating Systems* for the most updated list of supported guest operating systems.

Find Out More

For more information, or to purchase Stratus products, call 1-800-STRATUS, or visit www.stratus.com.



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