

Stratus Avance Software

Uptime assurance for small and mid-size organizations

When the system goes down, the business goes down, data is lost and customers as well as reputations are impacted. That's why small and mid-sized businesses count on Stratus Avance® software to protect their core business applications and keep them highly available, up, and running.

Uptime that beats traditional HA clusters

With just a few clicks, Avance software delivers superior high availability (HA) — less than one hour of downtime per year — while the average for traditional HA clusters ranges from four to eight hours.

Easy to operate and service

Avance software is highly automated and designed for ease of use and management. There's no need for programming, complex configuration, or constant oversight by highly skilled IT personnel. From the minute it's up and running, its unique automated uptime layer detects and handles faults before they can disrupt processing or cause an outage.

The most affordable way to prevent downtime

Your business no longer needs to tolerate unpredictable system failover because of tight budgets or lack of on-site staff. Avance software is highly affordable and offers configuration options that enable you to leverage or consolidate existing x86 infrastructure.

BENEFITS

SUPERIOR UPTIME ASSURANCE

- High availability 99.99+%; less than 1 hour of downtime yearly
- Real-time synchronous data replication
- Live migration
- Online upgrades
- Predictive fault management and fully automated recovery
- Local split-site disaster recovery
- Built-in 24/7 monitoring

HIGHLY AFFORDABLE

- Low cost to acquire and manage
- No third-party management software required
- No shared storage required
- Enables server consolidation
- Built-in Windows® and Linux® virtual machine (VM) provisioning for additional savings

EASY TO OPERATE

- Simple wizard-based Installation
- No specialized skills required
- No scripting or application customization
- Bare-metal implementation
- Remote management capabilities
- Alerts and "call-home" notification

Uptime. All the time.



The Avance solution operates on two x86 servers that are managed as one. Applications run on one server, while data is automatically and synchronously replicated to the second server in real time. Unlike clusters, Avance software handles hardware, network, and host software faults transparently, without the need for operator intervention. These features prevent downtime, restarts, and data loss, and help ensure applications are up and running continuously.

Transparent fault-handling

Avance software is the only HA solution that automatically detects, isolates and handles faults, thereby keeping your applications running despite system interruptions. This self-managing, high-availability software includes a single, web-based management console that enables remote monitoring and management of servers, VMs, and network interfaces.

Proactive availability management, 24/7:

Avance software constantly monitors system heartbeat and the health of drives, fans, power supplies, and other system components to predict faults and performance degradation. Its highly intuitive system management dashboard

presents your IT administrator with detailed configuration and alert information with guidance on resolving issues.

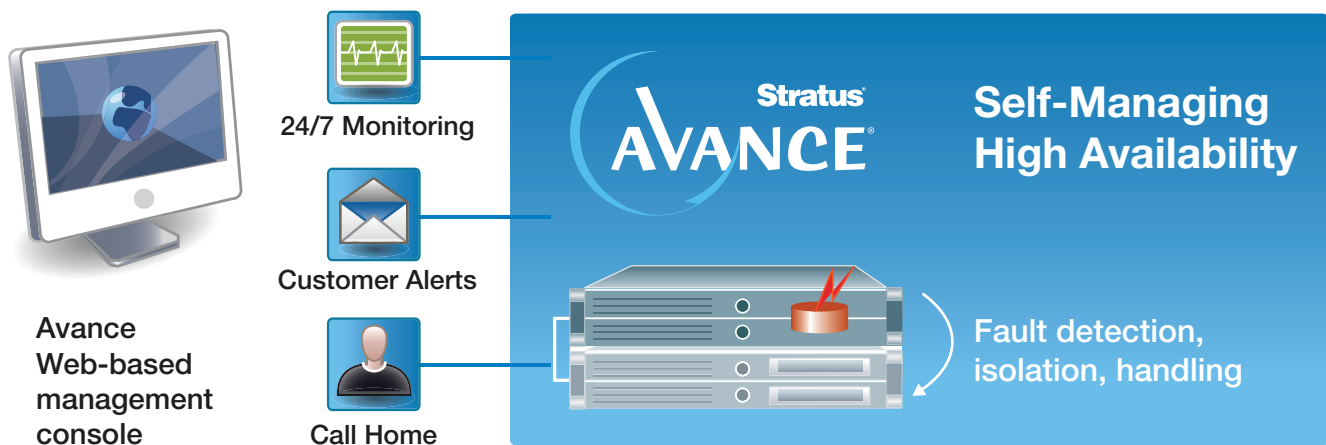
Automated uptime layer: If the software detects a problem on the primary server, it isolates the fault and seamlessly “live migrates” VMs to the secondary server. During this transition, applications continue to run — without interruption, loss of data or operator assistance.

Fault notification: Simultaneously, Avance call-home technology notifies the Stratus support center of the issue, indicating the type of fault and its exact location. This combination of automatic fault detection, isolation, and call-home technologies ensures speedy access to expert support technicians and rapid problem resolution.

Avance notification features also alert you via email or Simple Network Management Protocol (SNMP) traps based on your preferences.

Note: In the rare event of a complete server failure, Avance software automatically initiates a “rapid restart” on the secondary sever.

Avance Software’s Automated Uptime Layer Handles Faults Transparently



Avance monitors your hardware and host software for more than 150 critical operating conditions. If a fault is detected, applications are automatically migrated to the other node — without any impact on performance or loss of data.

Uptime. **All the time.**

Automatic resynchronization: When the problem is resolved and the primary server is returned to service, Avance software automatically re-synchronizes the node.

Power failure protection: Avance software guards your servers and applications against downtime during a power outage. The software supports vendor-independent Uninterruptable Power Supply (UPS), with a fixed shutdown policy, or enhanced 3rd-party UPS solutions that offer greater flexibility and control over shutdown processes.

Online upgrades and maintenance

Planned downtime for scheduled hardware and software maintenance can harm business productivity, technical resources, and budgets. Avance software's built-in technologies let you perform many routine operations and upgrades while continuing to operate, so client applications and services are not disrupted. Avance user interface "Help" and "Wizard" facilities also reduce time for trouble shooting, with multi-lingual support including Chinese, Japanese, German, and Spanish.

Dual-server architecture minimizes planned downtime:

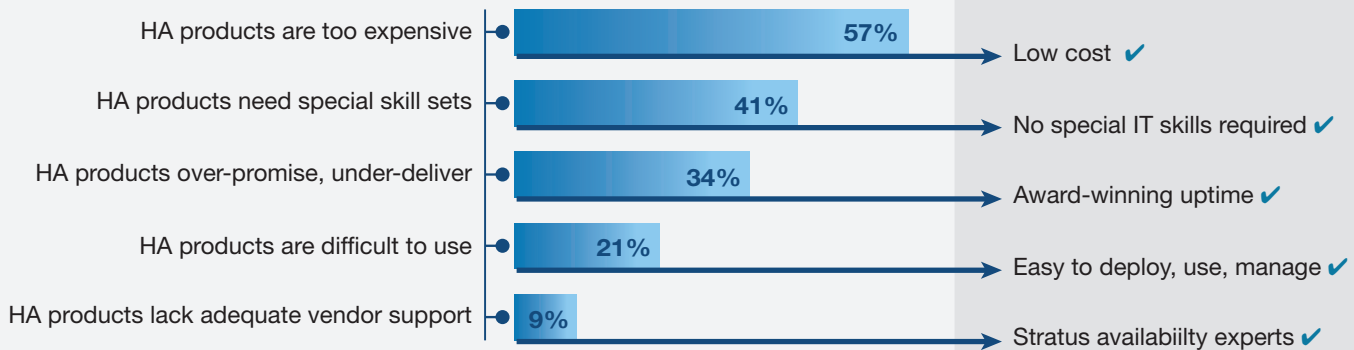
Avance software streamlines day-to-day operations with automated features that enable online hardware and host software upgrades. With a single command from the management console, Avance software puts one member of your server pair on maintenance mode while applications continue to operate on the second server. Once the upgrades are completed, Avance software automatically re-synchronizes the nodes — without the need to restart your server or applications.

Ease of migration

Avance wizard-based provisioning enables cloning, physical-to-virtual, and virtual-to-virtual machine conversions. These capabilities simplify VM backup/export and restore/import using standard Open Virtual Appliance (OVA) and Open Virtualization Format (OVF) files. The ability to import Windows and Linux virtual machines from other virtualization platforms makes your transition to Avance high-availability software quick and easier than ever before.

Avance Software Beats Other HA Solutions in Benefits and Affordability

What concerns your firm most about software and hardware products designed to increase uptime of line-of-business applications?
Select all that apply.



Source: 2010 High Availability and Virtualization Survey. Information Technology Intelligence Corp. (ITIC)

Uptime. **All the time.**

Examples of Faults Handled by Avance Software

Network	<ul style="list-style-type: none"> Broken or mis-configured switches Connectivity with domain name server Add-in network interface controller (NIC) 	<ul style="list-style-type: none"> Connectivity issues with router Business network link fault
Disk	<ul style="list-style-type: none"> Single / multiple disk fault SMART: early warning of disk wear out RAID volume failure 	<ul style="list-style-type: none"> RAID controller fault RAID battery sensor
Fan	<ul style="list-style-type: none"> Inadequate functionality 	<ul style="list-style-type: none"> Broken / missing fan
Power supply	<ul style="list-style-type: none"> Power current drop / fluctuation 	<ul style="list-style-type: none"> Single power supply failure
Temperature	<ul style="list-style-type: none"> System overheating 	
Internal voltage	<ul style="list-style-type: none"> Voltage drop / fluctuation 	
Memory	<ul style="list-style-type: none"> Excessive single bit error correction code (ECC) isolates errors down to a faulty DIMM 	
Motherboard	<ul style="list-style-type: none"> Internal motherboard: excessive ECC errors on all high-speed interfaces 	
BMC	<ul style="list-style-type: none"> Baseboard management controller malfunctioning 	
Processor	<ul style="list-style-type: none"> Early warnings indicate processor VCORE, processor status, CPU VTT 	
Host software	<ul style="list-style-type: none"> Avance fault-handling capabilities extend to the host software 	

License Type	Avance Software	Avance Foundation Software
x86 servers	<ul style="list-style-type: none"> 1- and 2-socket Intel® Xeon® processors* 	<ul style="list-style-type: none"> 1-socket Intel® Xeon® processor, on specified hardware only*
RAM	<ul style="list-style-type: none"> 1 to 128GB 	<ul style="list-style-type: none"> 1 to 8GB
Virtual Machines	<ul style="list-style-type: none"> Up to 16 	<ul style="list-style-type: none"> Up to 2

* A complete hardware certification list is available from Stratus.

Supported Operating Systems: Available on All Licenses

Microsoft® Windows	<ul style="list-style-type: none"> Windows Server® 2003 and 2008 	<ul style="list-style-type: none"> Windows 2000 Advanced Server
Linux	<ul style="list-style-type: none"> Red Hat® Enterprise Linux 	<ul style="list-style-type: none"> CentOS Linux

Average Yearly Downtime

Avance HA solution	<ul style="list-style-type: none"> 99.99+% → 52 minutes or less
Traditional high-availability clusters	<ul style="list-style-type: none"> 99.95% → 4 hours, 23 minutes 99.9% → 8 hours, 46 minutes
Conventional servers	<ul style="list-style-type: none"> 99% → 87 hours, 36 minutes

To arrange a demo

Call: 1-800-Stratus or

Email: AvanceDemo@stratus.com

Learn more at: www.stratus.com/avance



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