

# Neverfail Heartbeat

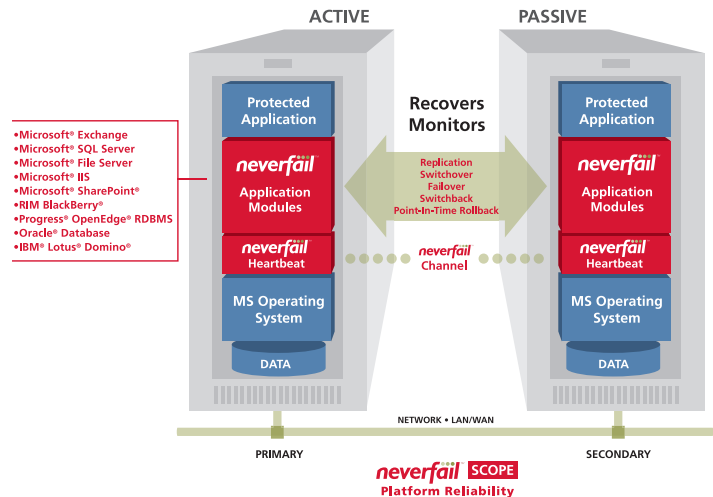
powers Neverfail's wide range of affordable "cluster-class" application availability and disaster recovery solutions.

Now that the costs of computing power and network solutions have become affordable for most small and medium-sized business, companies have become highly dependent upon them for their productivity and profitability. Today, no business can afford downtime. But until Neverfail, most companies couldn't afford the high availability solutions designed to keep their systems up and running.

## The heart of Neverfail – Neverfail Heartbeat

Neverfail Heartbeat is the core technology that powers all of Neverfail's application availability and disaster recovery solutions for the Microsoft® technology platform. Neverfail Heartbeat's "cluster-class" solution replicates data from an active server to a passive server in either a LAN or WAN environment to protect Windows-based applications against a wide range of potential failures.

In severe cases, should the active server fail, the passive server can assume the full identity of the active server and take over all processing. Neverfail Heartbeat's switchover feature is an automatic, seamless process to ensure continuous application availability and is completely invisible to the end user.



Neverfail's unique true pair technology delivers continuous data protection, application availability and disaster recovery for companies of all sizes.

## Neverfail Heartbeat— a first in high availability solutions

Backup and replication offerings focus only on recovering hardware and data failures from a primary server. Most clustering solutions only address certain type of failures. Neverfail Heartbeat is the first "cluster-class" high availability solution to focus on the entire application environment, including data, the operating system, the server, the network and each and every application to ensure no single point of failure.

In addition to offering highly available, "out-of-the-box" application protection solutions for Microsoft® Exchange, SQL File Server, Sharepoint®, IIS, RIM BlackBerry, Oracle and Lotus Domino, Neverfail protects auxiliary applications such as anti-virus, back-up, fax, and archiving via our Application Module eXtension (AMX) technology. AMX supplies an application program interface to

quickly and easily generate these extensions. Neverfail's existing library of AMXs is extensive, fully maintained and supported to assist you in avoiding the added costs of "one off" development practices on your critical server.

## High availability over a LAN or WAN environment

Neverfail Heartbeat can be configured to protect your applications in either a LAN or WAN environment. Where bandwidth or network utilization is an issue or needs to be reduced, the Neverfail Low Bandwidth Module (LBM) is available to optimize and reduce the amount of data that is transmitted between the two servers.



## KEY FEATURES

- Data protection**
  - Neverfail uses Asynchronous replication between servers and only replicates data changes to increase efficiency.
  - Protects data with minimal impact to live production performance.
- Seamless switch-over, failover and switchback**
  - Compared to “one way street” replication solutions, Heartbeat’s architecture allows movement of workload seamlessly back and forth between systems.
  - Provides higher availability with minimal disruption to users during and after a switch- or failover. Saves time associated with recovering from an outage.
- Integrated LAN/WAN support**
  - Neverfail delivers a single integrated product designed to support both LAN and WAN environments.
  - Saves time and resources by eliminating the need to learn and manage multiple products and “add-ons” associated with a LAN- or WAN-specific component.
- “Shared Nothing” architecture**
  - Does not require the primary and secondary servers to share any resources.
  - Saves money by not requiring the purchase of high priced storage configurations to protect the single point of failure created by traditional clustering solutions using shared disk.
- Hardware agnostic**
  - Does not require the primary and secondary servers be an exact match.
  - Saves money by allowing you to use older or dissimilar hardware you might already own.
- Zero downtime maintenance**
  - Applying an operating system patch or security update often requires rebooting the server. Neverfail enables you to apply maintenance updates without re-booting the active server.
  - Saves time and money by avoiding outages and downtime associated with maintenance of a production server.
- Non-disruptive server upgrades**
  - Neverfail Heartbeat’s unique architecture allows you to switch to a completely new production server with no changes or modifications to the operational environment.
  - Saves time and reduces the risks associated with upgrading server hardware.
- Network connectivity monitoring**
  - Monitors the active server’s public network availability. Automatically initiates a failover if the server cannot access the public network.
  - Improves availability by monitoring production server network connectivity.

## Reliability is the first and most crucial step to achieving high availability

The successful implementation and ongoing performance of any cluster-class high availability solution is predicated upon a reliable technology platform. Neverfail’s Server Check Optimization Performance Evaluation (SCOPE) is the only automated software solution to deliver a comprehensive health “check-up” of your server environment. SCOPE identifies existing configuration and performance issues in your environment prior to installation of a high availability solution and it provides “snapshots” of your environment to ensure on-going reliability.

## SYSTEM REQUIREMENTS:

### Primary server requirements

- Microsoft Windows 2000 or 2003 compatible server with 2GB of free system hard disk space. On a single partition.
- A minimum of 1GB RAM is recommended. Exact requirements depend on application load.
- Microsoft Windows 2000 Server or Advanced Server, or Microsoft Windows 2003 Server or Enterprise Server, latest SP version.

### Secondary server requirements

- Microsoft Windows 2000 or 2003 compatible server with disk space and memory to match the Primary Server.
- Same version of operating system with the same Service Pack applied as the Primary Server.

### Network requirements

- 2 Network cards per machine (1 Public & 1 Channel) or 3 Network cards per machine (1 Public & 2 Channel).

### Licensing

- Neverfail Heartbeat is licensed based on the Server in a pair with the greatest number of CPUs.

For more information, contact :



**NORTH AMERICA**  
 t. 512-327-5777 x 1800  
 email [info@us.neverfailgroup.com](mailto:info@us.neverfailgroup.com)  
 web [www.neverfailgroup.com](http://www.neverfailgroup.com)

**EMEA / ASIA PAC**  
 t. +44 (0) 870 777 1500  
 email [info@neverfailgroup.com](mailto:info@neverfailgroup.com)  
 web [www.neverfailgroup.com](http://www.neverfailgroup.com)