Enterprise Historian HA

PLATFORM

The fault-tolerant architecture eliminates single points of failure and addresses the hardware, software and serviceability issues that can lead to downtime and corruption or loss of critical data.

UPTIME LAYER

The Automated Uptime layer provides a single system view that removes management complexity.

24/7 MONITORING

Proactive 24/7 monitoring services focus on preventing downtime and data loss — an advantage that far outweighs the "break-fix" support offered by other vendors.

- Round-the-clock uptime assurance for mission-critical Enterprise Historian applications.

- Replicated, fault-tolerant hardware components process the same instructions at the same time.

- Superior uptime protection without the need for failover scripting, replicating data across servers, or any extra effort to make applications cluster-aware.
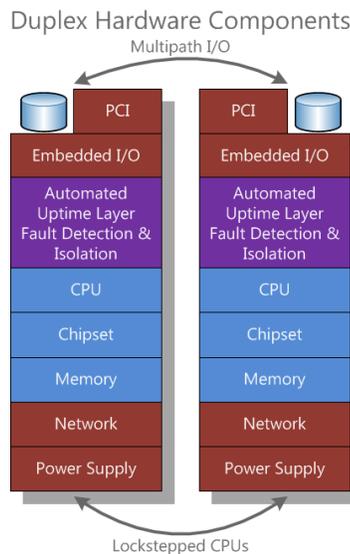
Canary Enterprise Historian HA powered by Stratus systems are designed to maximize uptime for the most demanding applications. Each system integrates fully replicated hardware components that eliminate single points of failure and safeguard data integrity. The server automatically manages its replicated components, executing all processing in lockstep. Replicated components perform the same instructions at the same time, there is zero interruption in processing, zero loss of performance, and zero loss of data integrity even if a component fails.

Built-in proactive monitoring technology constantly reviews system and component activity at very discreet levels, to such a degree that it predicts and prevents causes of downtime, even transient errors. For all intents and purposes, the first level of product support is in the server itself. A component failure or outage is shielded from the Enterprise Historian and processing continues using the online back-up already operating in the server. No failover, downtime, data loss, or performance degradation.

Canary Labs

Always On, Always Available

The Automated Uptime Layer software works in concert with the lockstep technology to anticipate and prevent software errors. Unlike typical redundant servers or clusters, Canary Enterprise Historian HA hardware and software handle these errors transparently, shielding the operating system, middleware, and application software from harm. Even in-memory data is constantly protected and maintained. It's high-performance, high availability, without adding complexity to your infrastructure.

Yet even with all of this sophistication, Canary Enterprise Historian HA systems look and act as a single x86 server. They operate and are managed as a single server, running standard Windows and VMware operating systems. There is no need to modify other applications to run on a Canary Enterprise Historian HA server. Even better, there's no additional training required for your IT staff to manage one

Duplex Hardware Components

Multipath I/O

PCI	PCI
Embedded I/O	Embedded I/O
Automated Uptime Layer Fault Detection & Isolation	Automated Uptime Layer Fault Detection & Isolation
CPU	CPU
Chipset	Chipset
Memory	Memory
Network	Network
Power Supply	Power Supply

Lockstepped CPUs

System Options

- **Department**: Highly affordable fault-tolerant server that is ideal for deployment in remote or small production facilities.

- **Mid-range**: Its many configuration options make it suitable for a wide range of Enterprise Historian configurations.

- **Enterprise**: A high-performance, fault-tolerant server for enterprise-class process historian and client-intensive workloads.

SERVICES AVAILABLE

Technical Support
Installation and Setup
Maintenance
Application Support
Hardware Support

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ZERO DOWNTIME

Availability is based on a design philosophy that detects, isolates, and corrects system problems before they cause system downtime or corruption of valuable business data. These servers eliminate the complexity and costs of deploying and managing high-availability solutions.

TECHNICAL SUPPORT

Canary Labs recognizes that every user may have questions or issues pertaining to our products from time to time. Through our CustomerCare program, our technical support department is ready to assist you and is committed to finding a solution to your problem in a timely manner.