Stratus Technologies

For an Always-On World.

Stratus®

Downtime

LISTEN.
THINK.
SOLVE.®

AB *Allen-Bradley* • *Rockwell Software*

Rockwell Automation

What Does Stratus Technologies do for Rockwell Automation Customers?

For over 30 years Stratus has been providing infrastructure based solutions that keep applications running continuously in today's always-on world. Stratus offers a range of solutions that can be rapidly deployed in your chosen environment. Stratus' platform solutions provide end-to-end operational support with integrated hardware, software and services. Stratus' software solutions are designed to run in physical, virtualized and cloud environments. As a Global Encompass partner, Stratus delivers continuous availability for Rockwell customers running FactoryTalk® View SE, FactoryTalk Historian, FactoryTalk Production Centre, and other plant applications.
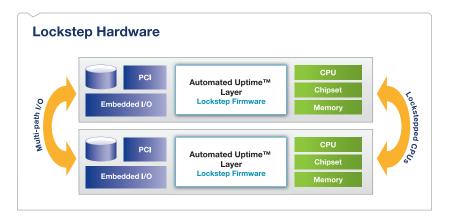
Stratus Prevents Downtime

Cost of Downtime

The cost of application downtime has risen dramatically. One recent survey by IndustryWeek calculates the Cost of Downtime to be $66,000 per incident for manufacturers.

Company Profile

Stratus customers range from large Fortune 500 organizations to small single-plant operations. They share one thing in common – they have applications that must be protected from unplanned outages. Stratus customers represent nearly every industry and our solutions are currently deployed in more than 40 countries. Support and sales assistance is readily available in all major regions including North and South America, Asia Pacific, Japan, Europe, Middle East, and Africa.

Industry Information

Companies in all industries have applications that benefit from eliminating unplanned downtime. Segments running critical processes, or those governed by stringent regulatory requirements, have an even stronger need to ensure application availability and data integrity. Stratus has a strong presence across a number of industries including: manufacturing, energy, oil & gas, life sciences, mill/mining, and automotive.

Stratus ftServer Platform: Technical Overview

The ftServer® system 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.

Lockstep hardware

Duplex fault-tolerant hardware components process the same instructions at precisely the same time. If a component fails, its partner simply continues normal operations — without any downtime or data loss.

Automated Uptime™ Layer

Stratus' unique automated Uptime Layer software constantly monitors more than 500 system components and sensors to identify, handle, and report faults — before they impact your system. This transparent error handling shields the operating system, middleware and application software. Even in-memory data is constantly

"If a problem occurs, the ftServer system keeps running without interruption. Stratus ftServer systems are the best answer for a production site with mission-critical business applications."

Mr. Kazunari Fukasawa – Manager, Information Systems Planning, Isuzu Motors Limited

protected and maintained. If a component needs replacement, the software automatically orders the correct customer-replaceable part. Parts are easily replaced, without tools or specialized training, while your system continues to run.

ActiveService™ Architecture

Technology-enabled ActiveService features built into every ftServer system allow Stratus to diagnose, troubleshoot and resolve problems online more than 99% of the time. Operations Control Centers on three continents use a follow-the-sun service model to provide secure access to our global 24/7 network of expert engineers. In addition, the deep diagnostics provided by the Automated Uptime Layer enables Stratus service engineers to accurately identify and fix the root cause of a problem before it recurs.

Eliminating Virtualization Risk

Although the benefits of virtualization are tremendous, the risks are just as substantial. If the host system fails, all the virtual machines (VMs) fail as well and the disruption of multiple applications quickly impacts production and costs. Stratus® ftServer platforms solve the availability and cost issues of virtualizing critical applications without adding any complexity to the architecture. Alternative VMware® HA failover configurations require multiple servers, a SAN, and expensive software. And, when a part breaks on the primary server there is still downtime and data loss as the "failover" is carried out. The added cost and complexity, combined with the issues of restarting up to eight applications following a failure, have left many looking for a better solution. Stratus' ftServer systems make it easy to afford the benefits of VMware virtualization for all of your critical plant applications.

The ftServer system provides up to 8 TB of mirrored internal Storage

Teamed Ethernet cards across enclosures present a single MAC address.

The Automated Uptime Layer detects, isolates and resolves faults before they cause downtime.

PartnerNetwork™

The PartnerNetwork program is a framework of well-managed relationships formed as a result of customer need. It provides manufacturers with access to a local, regional and worldwide network of best-in-breed specialists. These partners offer the industry experience and technological know-how to help solve business challenges both large and small.
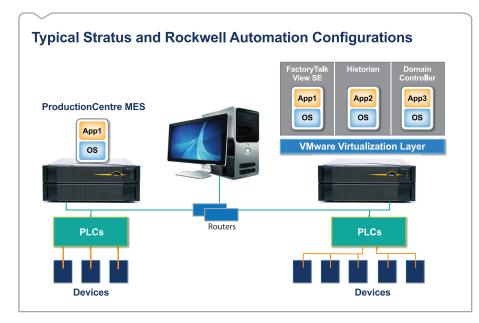
Through the PartnerNetwork program, Rockwell Automation delivers a wide array of solutions, easier access to knowledge, and consistent delivery of solutions to help improve our customer's business results.

Typical Stratus and Rockwell Automation Configurations

ProductionCentre MES

App1

OS

FactoryTalk View SE | Historian | Domain Controller

App1 | App2 | App3

OS | OS | OS

VMware Virtualization Layer

PLCs

Routers

PLCs

Devices

Devices

Summary

Stratus has taken a holistic view of continuous availability, attacking downtime like no other IT vendor in the industry. Unlike most high-availability offerings that simply "recover" from failure and require extensive administration to implement and manage, Stratus' platform and software solutions are engineered to automatically prevent downtime and data loss, ensuring your critical Rockwell Automation® applications are always on 24/7.

For more information or to request a quote, please call:

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Email us at: Manufacturingsolutions@stratus.com

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