

Stratus Technologies

Simplifying Availability of Critical Applications



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Allen-Bradley • Rockwell Software

**Rockwell
Automation**

What Stratus Technologies Can Do for Rockwell Automation Customers

Who is Stratus?

Stratus takes the complexity out of keeping business-critical applications running, 24/7. Stratus' technologies proactively prevent instances of unplanned downtime both in the data center and at the edge, and our services ensure that we proactively address any issues before our customers need to. From global Fortune 500 companies to smaller, medium-sized businesses, companies in a wide range of industries have relied on Stratus for operationally simple, fully redundant systems for nearly 40 years. Stratus offers a range of products (from servers to software) that can be rapidly deployed in your Rockwell Automation environment.

As a Global Encompass partner, Stratus provides support for Rockwell Automation FactoryTalk® View SE, FactoryTalk® Historian, FactoryTalk® ProductionCentre, PlantPAx®, ThinManager® and other critical plant applications.

Stratus and Industrial Automation

Automation is empowering industrial enterprises to dramatically increase productivity. Yet building or updating the infrastructure for industrial automation requires a unique implementation of underlying technologies designed to improve reliability, efficiency and availability. From process to discrete manufacturing, Stratus provides the solutions to modernize your Connected Enterprise and reduce the complexity of industrial control systems.

Available for data center and control room deployments, as well as directly on the plant floor, Stratus hardware and software solutions enable control systems and Rockwell Automation's manufacturing applications to be consolidated onto one unifying platform. Stratus systems are self-monitoring, self-protecting and don't require IT specialists on site – and are therefore uniquely suited for industrial environments.

Stratus eliminates the complexity normally associated with specialized redundant solutions. With systems that are easy to deploy, manage, and service, Stratus makes failure prevention as simple – and effective – as possible.

Virtualization and Availability with Stratus ftServer

Stratus Technologies' flagship ftServer® integrates the key technologies of virtualization, continuous availability, and fault tolerance in a single solution that meets Industrial Automation companies' need for simplicity – not complexity – in their operating environments.

When IA companies have adopted virtualization and are running multiple virtual machines on a single physical host, a hardware failure has a much broader impact than it would have under the 1:1 server-to-application model. This is why having a continuously available server platform, like the ftServer, is so essential. ftServer is a simple, fail-proof, and cost-effective way to maintain a continuously available processing environment for virtualized applications. It is a failure-prevention solution, as opposed to a failure-recovery solution. Stratus ftServer supports OPC standards, ensuring that ftServers running on VMware are an integral part of your industrial automation infrastructure, extending interoperability with business-critical industrial applications.



“We ended up with 34 virtual machines all on one Stratus solution, because of the virtual environment and using Rockwell Automation PlantPAx, we were able to get the project done four months ahead of schedule.”

Steve Andrews – Project Manager for Advanced Electrical Technologies

Availability at the Edge with Stratus ztC Edge

In today's industrial environments, companies are faced with mounting pressure to be more efficient with fewer resources. And while industrial technologies are becoming more powerful and more connected, industrial automation applications are being deployed where there are little or no IT resources – the edge. An example of the “edge” in an industrial environment are systems that run directly on the manufacturing or plant floor. The influx of data from these technologies and devices is driving the need for – and growth of – new edge computing infrastructure.

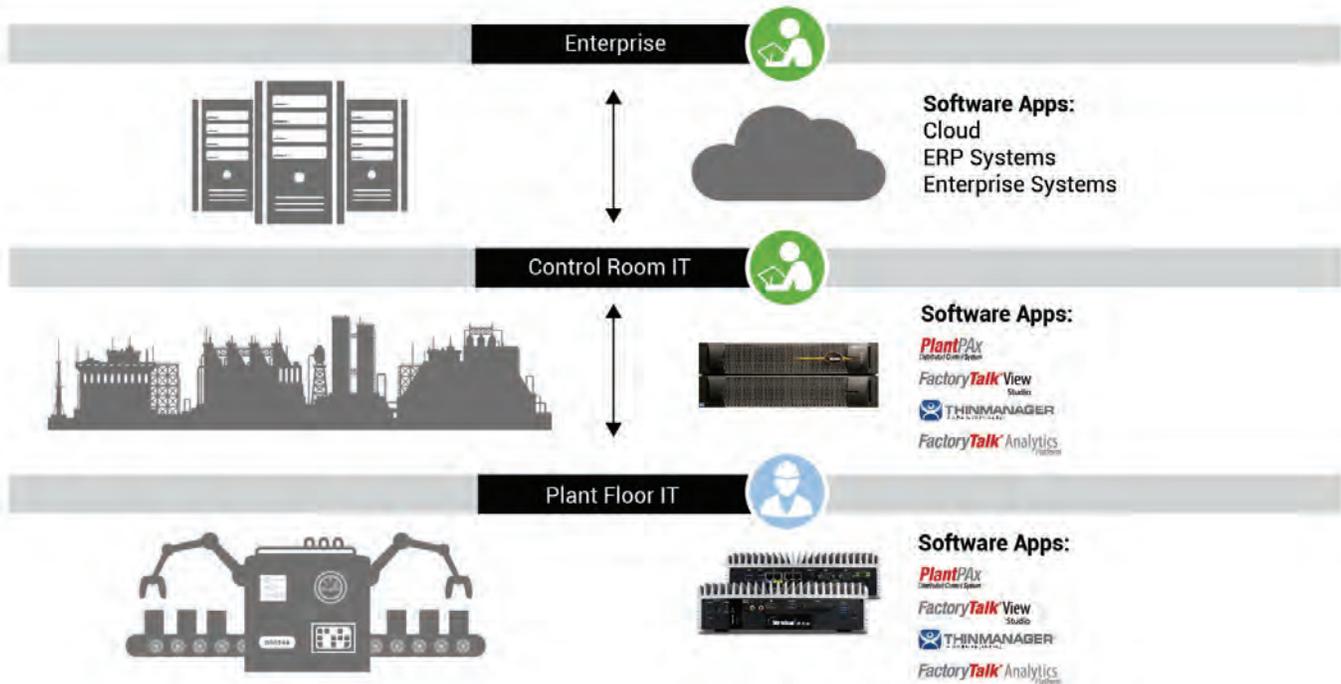
Stratus ztC Edge is a zero-touch, fully virtualized and self-protecting computing platform, specifically designed for industrial edge environments. With built-in remote management and user-installable in less than an hour, ztC Edge significantly reduces the IT burden for virtualized computing at the edge. Its self-protecting and self-monitoring features help reduce unplanned downtime and ensure availability of business-critical industrial applications.

Purpose-built for operational technology (OT), ztC Edge is easy to set up, configure and manage, with user-friendly tools and redundant, hot-swappable nodes that automatically verify compatibility and synchronize themselves. Stratus ztC Edge supports Rockwell Automation applications such as PlantPAx, FactoryTalk, ThinManager and FactoryTalk Analytics™.



Data and Analytics Management

Continuous availability becomes even more important when companies implement asset management. Advanced manufacturing operations increasingly depend on accurate, real-time analytics gathered and processed throughout the value chain and regardless of locations. Both ztC Edge and ftServer ensure that customers have complete data captured for their analytics, SCADA and HMI applications, which will in turn produce the most reliable and accurate results possible as they proactively manage their production assets.



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.

Stratus for Rockwell Automation Customers

Rockwell Automation understands that when it comes to its customers' business-critical applications, unplanned downtime is a problem that should always be prevented. Stratus paired with Rockwell Automation provides the best solution, combining operationally simple and continuously available servers with Industrial Automation (IA) applications – creating a secure Connected Enterprise. Examples of how Stratus supports Rockwell Automation applications include:

PlantPAx Process Automation System

PlantPAx distributed control system combines the plant-wide control technologies and unmatched scalability of Rockwell Automation Integrated Architecture® with all the core capabilities expected in a world-class distributed control system (DCS). When combined with the power of ftServer, PlantPAx is continuously available and allows unprecedented control and security in a sustainable and scalable platform, regardless of the size of your industrial environment or number of facilities.

FactoryTalk & ThinManager

Embedded in most Rockwell Automation software products, FactoryTalk Services Platform is a suite of services including manufacturing intelligence analytics (e.g., Historian), configuration and collaboration applications (e.g., ThinManager), HMI solutions and manufacturing execution systems. Rockwell Automation ThinManager offers centralized management solutions for the modern factory and office by simplifying management of applications and visual sources. When combined with the power of ftServer or ztC Edge, ThinManager is always available and allows unprecedented control and security in a sustainable and scalable platform regardless of the size of your industrial environment or number of facilities.

Rockwell Automation and Stratus in Action: Columbia Pipeline

It's often difficult to fully understand the impact of modernizing an automation system and how an investment in redundant platforms from Stratus can deliver rapid results. For Columbia Pipeline Group (powered by Rockwell Automation) the answer is approximately \$2.3 million in just their first year of running on Stratus, even with a partial pipeline upgrade. Using the Stratus ftServer

platform, which delivers high availability in excess of five nines (99.999%), Columbia has achieved an overall system-wide availability level of over 99.5%. By running a virtualized platform with continuous availability, not only do the SCADA applications experience no unplanned downtime due to system failures, but no data loss means that asset management systems and IIoT predictive analytics applications can effectively control access and provide accurate data to maximize maintenance effectiveness. Watch this quick video to learn more.

Rockwell Automation Demo Sites with Stratus Equipment

Want to see an ftServer or ztC Edge running Rockwell Automation applications up close and personal? Rockwell Automation offers 50+ worldwide locations showcasing PlantPAx and FactoryTalk solutions running on a Stratus hardware solution. Contact your local Rockwell Automation distributor to find a location near you!

Summary

Stratus is proud to be a part of Rockwell Automation's Partner Network Encompass™ Program, being recognized as a complementary product to solve your IA challenges. With more than 40 hardware and software availability patents, we have been protecting lives, assets and revenues while delivering the industry's highest levels of uptime since 1980.

Preventing virtualized industrial business applications from failure, let us remove the complexity from continuous availability for your Rockwell Automation applications. To learn more, visit www.stratus.com/RA.

For more information, or to request a quote, contact:

Stratus Technologies

U.S. Operations

5 Mill and Main, Suite 500, Maynard, MA 01754

Phone: 1.800.STRATUS (787.2887)

Email: manufacturingsolutions@stratus.com

Web: stratus.com/go/ftserver



Connect with us.

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www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846