SAP Manufacturing Integration and Intelligence (MII) Application

Stratus fault-tolerant servers deliver guaranteed uptime assurance for critical SAP MII environments

Integrate your business-critical manufacturing applications

The SAP® Manufacturing Integration and Intelligence (SAP MII) packaged composite application integrates enterprise resource planning (ERP) applications with manufacturing execution systems (MES) and other plant-floor solutions. A key component of the SAP Perfect Plant, SAP MII enables companies like yours to improve your decision making processes by gathering real-time manufacturing intelligence using data pulled from a variety of sources.

Uptime, all the time

The Stratus® ftServer® family delivers the fault-tolerant capabilities you need to successfully deploy SAP MII within your manufacturing environment. ftServer systems offer 99.999+% uptime that the SAP MII application requires to continuously process transactions in real time and maintain tight connections between the various systems in your plants and main data center. The operational simplicity of the ftServer system also helps you significantly reduce the costs associated with planned and unplanned downtime.

SOLUTION BENEFITS

• Enables personnel to focus on core manufacturing activities, not system maintenance
• Ensures continuous 24/7/365 uptime for real-time MII functionality
• Deploys rapidly and seamlessly into existing MII environments; as easy to manage as a single server
• Bundled hardware and software solution lowers total cost of ownership

The combination of SAP MII and Stratus’ powerful open Intel® processor-based ftServer architecture delivers a solution that helps you improve asset performance, reduce costs, increase production and support your IT environment with limited personnel.
Increase productivity and improve the decision-making process with shop floor IT availability that exceeds 99.999%

**Enabling the Perfect Plant**
SAP MII enables your company to rapidly integrate existing applications, including MES, shop floor automation, and ERP solutions, across your plant and headquarters operations.

As an SAP Global Technology Partner, Stratus delivers the resilient hardware and 24/7 monitoring services your company needs to build a continuously available infrastructure that supports your SAP MII deployment. Stratus ftServer platforms combine high-performance, multi-core Intel processors with Stratus’ fault-tolerant architecture to deliver the power of SAP MII right to the plant floor. And since the ftServer platform is managed like any other Microsoft® Windows®-based server, it can be deployed seamlessly into your company’s existing Windows environment, helping protect your investments.

**Why SAP MII customers select Stratus**
- Unsurpassed system availability: eliminates concerns over compliance, safety and lost production
- Easy to set up and operate: supports Microsoft® Windows Server®; load-and-go simplicity; no need for sophisticated IT skills
- Easy to maintain: remote monitoring and alerts; hot-swappable components; eliminates need for failover testing
- Integrated support model that starts with a single call to the Stratus support center
- Long-term system support: extends beyond typical server support lifetimes
- Proven performance in business-critical environments: the preferred choice of leading manufacturers

**A Perfect Plant Solution that eliminates planned and unplanned downtime**

SAP MII runs on a Stratus ftServer system at the plant and is linked by a wide area network (WAN) to the SAP ERP application running in the data center.

If the WAN connection fails or SAP ERP is down for any reason, transaction screens are still available at the plant. Data automatically resynchronizes once the application becomes available again.

Both planned and unplanned downtime are addressed by this solution.
Processing that never stops
Fault-tolerant servers are engineered to withstand hardware and software errors that would cause other servers to crash. Plus, the Stratus Automated Uptime Layer is built into every ftServer system. This advanced, one-of-a-kind technology constantly monitors your system to actively prevent downtime and data loss. Self-diagnostics, automatic fault handling, and “call-home” capabilities identify and report hardware and software issues.

If a replacement component is needed, the system automatically orders the correct “hot-swappable” part for next-day delivery. No special IT skills are required to replace ftServer hardware components, saving time and expense. Throughout this entire process, your ftServer system continues to perform as normal without any degradation in performance or loss of data.

Rexam builds an SAP Perfect Plant
Rexam, the world’s largest manufacturer of beverage cans, is using Stratus ftServer systems to deploy SAP MII at its 17 can production facilities in North America. The solution allows Rexam to use SAP MII to integrate manufacturing transactions with the SAP ERP solution and the Acumence Plant Analytics Server that is used to monitor operations and resolve manufacturing exceptions in real time.

The use of ftServer systems enables manufacturers to continue running their plant in a disconnected mode in the event of a WAN outage or during routine IT maintenance of the SAP ERP system. The solution eliminates SAP downtime at the plant and provides real-time data that will drive operational efficiencies.

About Stratus Technologies
Stratus delivers the world’s only proactive “uptime assurance” guarantee for the platforms that run the most vital functions of business, healthcare, manufacturing and government. Combining its resilient software and hardware technologies with thirty years of unparalleled remote monitoring and management expertise for availability, Stratus helps save lives and protect the business and reputations of companies, institutions, and governments the world over. To learn more about worry-free computing, visit www.stratus.com.
## Key Factors

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<th><strong>STANDARD SERVERS</strong></th>
<th><strong>STRATUS ftSERVER SYSTEM</strong></th>
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| **Average annual downtime** | Hours to days — depending on problem  
  • Varies by configuration; typically not reported  
  • Requires restart | • ~81 seconds annual downtime: Server & OS  
  • Uptime approaches six nines. Installed base statistics reported daily at www.stratus.com |
| **Fault detection, error handling** | • Single points of failure: memory, network card, power supply, disk  
  • No automatic detection/reporting of faults  
  • Requires rebuilding after failure | • Eliminates single points of failure: lockstepped processors; redundant components, Automated Uptime layer,  
  • Automatic fault detection, isolation, reporting |
| **Transaction integrity** | • Integrity dependent on hardware configuration  
  • All in-flight data lost on failure | • No data loss: Even in-flight data is protected by mirrored memory, redundant components |
| **Installation procedure** | • May require RAID configuration | • Out-of-the-box uptime and operation; pre-installed operating system |
| **Serviceability** | • Lack of root-cause diagnostics requires trial-and-error approach to problem resolution | • Built-in self-diagnostics, online serviceability:  
  • Requires only basic IT skills  
  • Hotswappable replacement parts |
| **Support model** | • Standard support model | • Advanced call home technology; provides detailed information on HW and SW issues  
  • Global 24/7 mission-critical support |

### SAP MII Test-drive Program

Learn how you can experience the speed, flexibility and value of the SAP MII application on Stratus ftServer systems with our free “test-drive” program.

**SAP Global Partner**

Visit: [www.stratus.com/manufacturing](http://www.stratus.com/manufacturing) and click “Request Information”

Consult: Your SAP Business Partner

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