Optimize order fulfillment with Intel and SAP

Since the onset of the COVID-19 pandemic, the news has been full of stories of supply-chain related delays, bottlenecks, and shortages. Many businesses have struggled with shifting customer demands and delayed response times. The inability to effectively streamline and use data to predict issues and provide real-time actionable insights has resulted in enormous impacts on profitability, revenue, and growth.

Proactively predict order fulfillment delays and mitigate risks with advanced AI, machine learning (ML), and Kubernetes containers in a hybrid cloud environment, supported by certified services. Improve customer experiences and revenue-recognition potential with a packaged order management solution, powered by SAP on Intel with Red Hat and Inspired Intellect.

Predict and act

Automatically predict delays and prescribe correction actions with tailored ML models, leveraging SAP Data Intelligence and SAP Data Warehouse.

Speed and standardize

Dramatically increase speed application development in a standardized, container-based data environment, orchestrated through Red Hat OpenShift enterprise Kubernetes.[1]

Compute and scale

Power AI computations of vast amounts of data and scale to meet fluctuating needs with 3rd Gen Intel® Xeon® Scalable processors, Intel® Optane™ Persistent Memory, and Intel® Optane Solid State Drive.

For mission-critical supply chains:

- Consumer Packaged Goods
- Manufacturing
- Wholesale Distribution
- Automotive
- Aerospace and Defense
- Pharmaceutical/ Life Sciences
- High Tech
- Chemicals
- Retail

A complete packaged solution for a modernized order management system

Optimize your order fulfillment processes, and increase visibility and insights with Intel, SAP, Red Hat, and Inspired Intellect services.

Actionable insights
Streamlined data sources, a single source of truth, and actionable insights powered by advanced prescriptive and predictive analytics.

Tailored ML models
Custom tailored machine learning models on an optimized infrastructure purpose-built for AI workloads.

Powerful infrastructure
AI workloads run at record speeds with Intel Xeon Scalable processors and the Intel® Data Analytics Acceleration Library (DAAL).[2]

Data utilization
Efficient data utilization and recovery with Intel Xeon Scalable processors and Intel Optane Persistent Memory.

Hybrid cloud
Optimized for hybrid cloud and certified for SAP workloads.

Ease of deployment
Optimize the deployment with a highly experienced implementation team.

Gain the insights, speed, scalability, consistency, and security you need to avoid delivery delays and ensure you meet service-level agreements. Move quickly with an integrated and scalable supply chain packaged solution, including a purpose-built infrastructure, advanced data analytics with AI and ML, and expert services, from Intel, SAP, Red Hat, and Inspired Intellect. Learn more.

The supply chain order fulfillment optimization package includes:

- SAP HANA®
- SAP S/4HANA®
- SAP Data Intelligence
- SAP Business Technology Platform
- SAP S/4HANA® Inventory Management
- 3rd Gen Intel® Xeon® Scalable Processors
- Intel® Optane™ Persistent Memory
- Intel® Optane™ Solid State Drives
- Intel® DL Boost
- Intel® Advanced Vector Extensions (AVX-512)
- Intel® Ethernet 800 Series NICs
- Intel® DAAL Library
- Red Hat® OpenShift®
- Red Hat® OpenShift® Container Storage

Inspired Intellect for end-to-end data management, analytics, and application development.

1. https://www.ecloudcontrol.com/kubernetes-is-now-the-dominant-technology-for-cloud-applications/#:~:text=All%20in%20all%2C%20Kubernetes%20speeds,on%20application%20logic%20and%20business ; https://www.redapt.com/blog/how-kubernetes-pods-help-streamline-app-development-and-deployment"%20

2. Lenovo. "ThinkSystem SR950 Sets World Record with New SAP BW Edition for SAP HANA (5.2B Records) Benchmark Result" September 2018. https://lenovopress.com/lp0995-sr950-4s-sapbw-52b-benchmark-result-2018-09-27 A Lenovo ThinkSystem SR950 4-socket server using Intel Xeon Platinum 8180 processors delivers world-record performance for the SAP BW edition for SAP HANA Standard Application Benchmark Version 3, with 5.2 Billion (5.2B) initial records in a single-node set up. Submitted/published results as of 27 September 2018 by Lenovo. Configuration: Lenovo ThinkSystem SR950, four processors/112 cores/224 threads, Intel Xeon Platinum 8180 processor, 2.50 GHz, 64 KB L1 cache and 1,024 KB L2 cache per core, 38.5 MB L3 cache per processor, 3,072 GB main memory, running SUSE Linux Enterprise Server 12, SAP NetWeaver 7.50, SAP HANA 2.0.Source: SAP certification number 2018040, https://www.sap.com/dmc/benchmark/2018/Cert18040.pdf Score: Number of initial records: 5,2000,00,000; phase 1: data load phase= 28,715 (runtime of last dataset in seconds); phase 2: query throughput phase = 4,970 (query executions per hour/records selected); phase 3: query runtime phase = 156 (total runtime of complex query phase in seconds). World records for SAP HANA performance on Intel processor-based systems include benchmarks conducted on HPE ProLiant DL560 Gen10 TDI (1.3B initial records), Lenovo ThinkSystem SR950 (1.3B initial records and 2.6B initial records) and Dell EMC PowerEdge R940 (2B initial records). For details and other world records, see: http://intel.com/content/www/us/en/benchmarks/server/xeon-scalable/xeon-platinum-world-record.html and http://sap.com/dmc/exp/2018-benchmark-directory/#/bwh