

6.21X improvement
in data merge performance.¹

CATL Enhances Real-time Data Processing for Higher Production Capacity & Efficiency

CATL, a global leader in new energy R&D and manufacturing, has been improving productivity under its evolving strategy for digital and smart manufacturing. Its Manufacturing Execution System (MES), based on SAP HANA, plays a key role in real-time data collection and quality control on production lines. Increasing pressure on production capacity imposed new challenges on the system’s latency and reliability. CATL built a new foundation with 2nd Gen Intel® Xeon® Scalable processors and Intel® Optane™ persistent memory. This eliminated database performance bottlenecks and greatly shortened reboot times, ensuring that CATL’s production lines operated at high efficiency with minimal downtime, helping further expand production capacity.

“MES serves as the ‘central nervous system’ of our production lines for smart manufacturing. Its performance improvements are definitely crucial for higher productivity and output. The introduction of Intel® Optane™ persistent memory helped eliminate a number of performance bottlenecks for MES.”

Lai Tengfei, Processes, IT Architecture and Solutions Department Manager, CATL

Products and Solutions

[2nd Gen Intel® Xeon® Scalable Processors](#)
[Intel® Optane™ persistent memory](#)

Industry
Manufacturing

Organization Size
10,001+

Country
China

Partners
[SAP](#)

Learn more
[Case Study](#)

¹ For more complete information about performance and benchmark results, visit <https://www.intel.com/content/www/us/en/customer-spotlight/stories/catl-battery-customer-story.html>