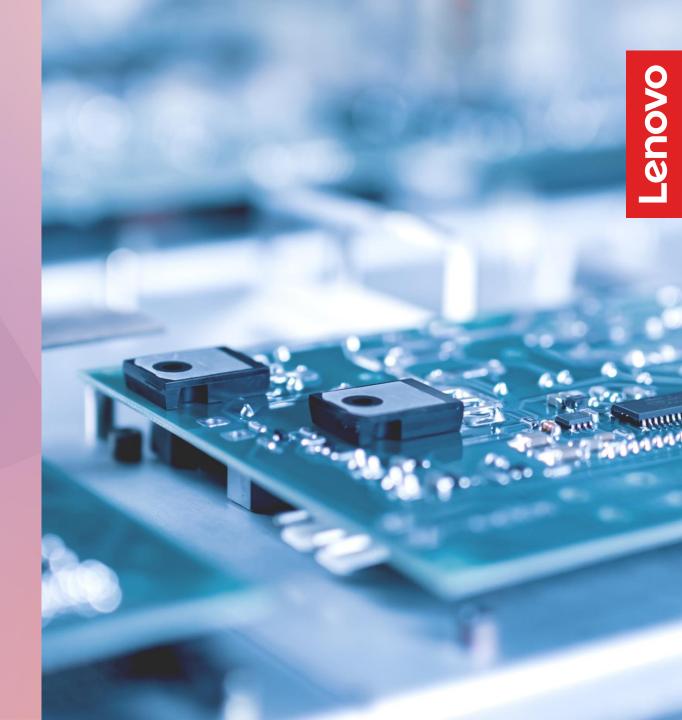# Supporting big-league customers

Tonsload Power Technology Co., Ltd.

Tonsload Power Technology transformed its IT with a software-defined infrastructure (SDI) powered by Lenovo ThinkServer SR660 V2 servers, boosting resource utilization by 50%, enhancing operational efficiency, and laying a flexible foundation for future growth.

Lenovo

Who is Tonsload Power Technology?

Founded in 2007 and headquartered in Weihai City, Shandong Province, Tonsload Power Technology Co., Ltd. is a high-tech enterprise specializing in the development, production, and distribution of automotive and industrial power electronics products. Recognized as a 'Little Giant' enterprise for its innovation and contributions to smart manufacturing, its customers include Fortune Global 500 companies and leading domestic enterprises such as Dongfeng Commercial Vehicles, SAIC Maxus, and Geely.

天力·科技
TonsLoad Power Tech

2 The challenge

Tonsload Power Technology's business has gone from strength to strength in recent years, attracting many high-profile customers. But increased demand had started to put a strain on the company's IT infrastructure. Current server performance impacted the performance of critical business systems, threatening to hinder operational efficiency and scalability.

"Our growth journey was very exciting, but our legacy servers started struggling to keep pace with increased customer and production demands," says Tian Kun, Head of the Information Technology Department at Tonsload Power Technology. "This gap in performance directly impacted our ability to innovate and maintain strong customer relationships."

2 The challenge

Tonsload Power Technology's existing bare-metal server estate had become outdated, creating performance bottlenecks that limited the ability to support modern applications and computationally demanding workloads. Furthermore, the lack of high-availability (HA) mechanisms posed the risk of single-point failures and potential service interruptions. Additionally, the absence of a virtualization environment resulted in low resource utilization and inflexibility in adapting to changing business demands.

Hardware inconsistencies across Tonsload Power Technology's diverse server estate, purchased at different times, further increased maintenance complexity and restricted scalability, making it difficult to optimize system performance and manage IT resources effectively.

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"We wanted an IT infrastructure that could deliver high performance, ensure business continuity, and **adapt to our growing operational needs**. Our customers expect the highest quality of products and services, **we need the right IT foundation to deliver this**."

Tian Kun

Head of Information Technology Department, Tonsload Power Technology Co., Ltd.

Building a high-performance infrastructure

Tonsload Power Technology partnered with Lenovo to refresh its IT infrastructure, selecting a software-defined infrastructure (SDI) solution based on Lenovo ThinkServer SR660 V2 servers, virtualized with KVM technology. Tian shares: "The Lenovo solution integrates computing, storage, and networking resources, enabling us to consolidate and optimize IT operations."

With support from Lenovo Deployment Services, the company migrated key business systems—including its ERP, manufacturing execution, product lifecycle management, and office automation systems—to the new SDI platform.

Hardware
Lenovo ThinkServer SR660 V2

Services
Lenovo Deployment Services

3 The
solution

The Lenovo SDI platform's HA capabilities enable automatic failover, ensuring uninterrupted service even in the unlikely event that an individual compute node goes offline.

"With the Lenovo platform, our IT team can monitor and adjust resources more efficiently," Tian says. "The built-in backup and snapshot functions enhance data protection, safeguarding against potential losses."

"The Lenovo SDI solution enables us to think beyond immediate concerns and build a system that supports long-term growth and innovation."
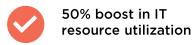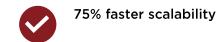
Tian Kun

Head of Information Technology Department, Tonsload Power Technology Co., Ltd.
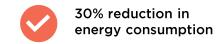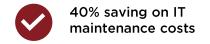
4 **The results**

With the Lenovo SDI solution, Tonsload Power Technology has boosted performance, enhanced operational efficiency, strengthened system reliability, and laid a flexible foundation for continued growth.

"We know we can rely on our Lenovo SDI platform to keep critical business systems running reliably, so we can deliver high-quality products to our high-profile customers," says Tian. "What's more, by leveraging Lenovo's solutions, we achieved a 40% reduction in maintenance costs. This has freed up resources for reinvestment in other critical areas of our business."

- ✓ 50% boost in IT resource utilization
- ✓ 75% faster scalability
- ✓ 30% reduction in energy consumption
- ✓ 40% saving on IT maintenance costs

"We have **totally transformed** our IT operations with the Lenovo SDI platform. Lenovo empowered us to reimagine what's possible, creating a platform for **sustainable innovation and long-term success**."

Tian Kun

Head of Information Technology Department, Tonsload Power Technology Co., Ltd.

Why Lenovo?

Lenovo provided Tonsload Power Technology with a tailored SDI solution that offers high performance, availability, and scalability. An experienced technical team from Lenovo supported the collaboration, ensuring smooth deployment and long-term reliability.

"From the initial analysis to implementation and ongoing support, Lenovo's team was with us every step of the way," says Tian. "Their expertise and commitment have made a significant impact on our business."

How can businesses support high-profile customers?

With a software-defined infrastructure from Lenovo, Tonsload Power Technology boosts the performance and reliability of critical business systems, all while cutting costs.

Explore Lenovo Server Solutions