Lenovo Boosts Enterprise AI Factory Deployments with NVIDIA RTX PRO Servers and Lenovo Hybrid AI 285 Platform

Article

With customers looking to deploy validated and seamless AI solutions and AI budgets tripling in 2025 to 20% of IT budgets, investing in the right AI solutions to meet business SLAs and deliver higher ROI has never been more important. To help customers simplify their deployment with validated and trusted AI solutions, Lenovo introduced Lenovo Hybrid AI 285 , a platform that enables enterprises of all sizes to quickly deploy hybrid AI factory infrastructure, supporting Enterprise AI use cases as either a new, greenfield environment or an extension of their existing IT infrastructure.

Lenovo Hybrid AI 285 platform

The Lenovo ThinkSystem SR675 V3 server will support up to eight NVIDIA RTX PRO 6000 Blackwell Server Edition GPUs, delivering optimal performance for a wide range of agentic AI and physical AI use cases. This **NVIDIA RTX PRO Server** from Lenovo provides enterprises with a universal data center system to power AI factories — driving the shift from CPU-based systems to efficient GPU-accelerated infrastructure.

The Lenovo Hybrid AI 285 platform built around the Lenovo ThinkSystem SR675 V3 is based on recommended hardware configurations from NVIDIA Enterprise Reference Architectures.

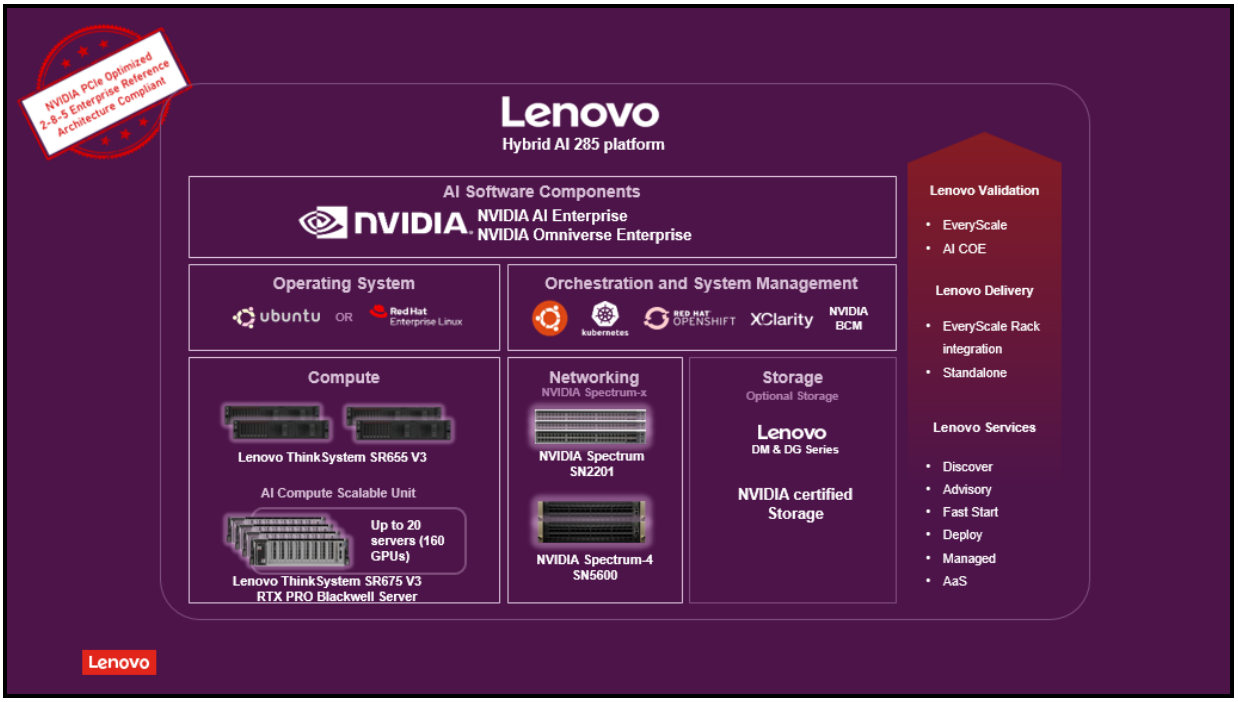

Figure 1: Lenovo Hybrid AI 285 platform, featuring Lenovo and NVIDIA-Certified solution components

The Lenovo Hybrid AI 285 solution is highly scalable, starting from a single ThinkSystem SR675 server with just 4 GPUs scaling up to 20 servers and 160 GPUs. With the integration of NVIDIA RTX 6000 PRO Blackwell Server Edition GPUs into the Lenovo Hybrid AI 285 platform, GPU-accelerated retrieval is faster, more intelligent, and more efficient for faster time-to-value for Retrieval Augmented Generation (RAG) and Agentic AI operations. One example is the Lenovo Hybrid AI Advantage with NVIDIA solutions AI Content Generation use case. This solution enables customers to create, manage, and optimize original, high-quality content efficiently and consistently.

With the addition of NVIDIA RTX PRO Servers, the Lenovo Hybrid AI 285 platform will also align with the new NVIDIA Enterprise AI Factory validated design. This validated design offers full-stack guidance for enterprises to build and deploy their own on-premises AI factory. By following the software stack guidance in this validated design, the Lenovo Hybrid 285 platform will help enterprises deploy a wide-range of AI-enabled enterprise applications, including agentic and physical AI workflows, autonomous decision-making, and real-time data analysis.

Comprised of NVIDIA Blackwell accelerated computing, NVIDIA networking, and NVIDIA AI Enterprise software with NVIDIA-Certified Systems and storage like Lenovo ThinkSystem servers and storage from Lenovo, these solutions enable customers to deploy on-premises AI solutions confidently, with the performance, reliability, and security features customers require for enterprise AI deployments.

Lenovo AI Services: Accelerate the AI Journey with Confidence

AI is complex. Lenovo streamlines the journey.

Lenovo AI Services support organizations in moving from exploration to execution, delivering faster outcomes through expert guidance, robust infrastructure, and enterprise-ready software.

Support spans the full AI lifecycle:

- **AI Discover** – Sets the vision. Defines the strategy.

  Assesses organizational readiness across people, processes, technology, and security. Delivers actionable recommendations using a proven methodology.

- **AI Advisory** – Aligns AI to business priorities.

  Defines desired outcomes, recommends optimal architectures and security postures, and designs scalable adoption roadmaps from edge to cloud.

- **AI Fast Start** – Moves from concept to production—fast.

  Develops high-impact use cases rapidly with NVIDIA AI Enterprise, which includes NVIDIA NIM Accelerates platform readiness and production deployment in just weeks.

- **AI Deploy and Scale** – Delivers secure, scalable, cost-effective AI.

  Implements enterprise-grade infrastructure tailored for production workloads. Scales deployments flexibly through Lenovo TruScale as-a-service.

- **AI Managed** – Optimizes systems. Evolves capabilities.

  Provides ongoing system management and optimization. Extends AI capabilities through Lenovo's global ecosystem of AI Innovators.

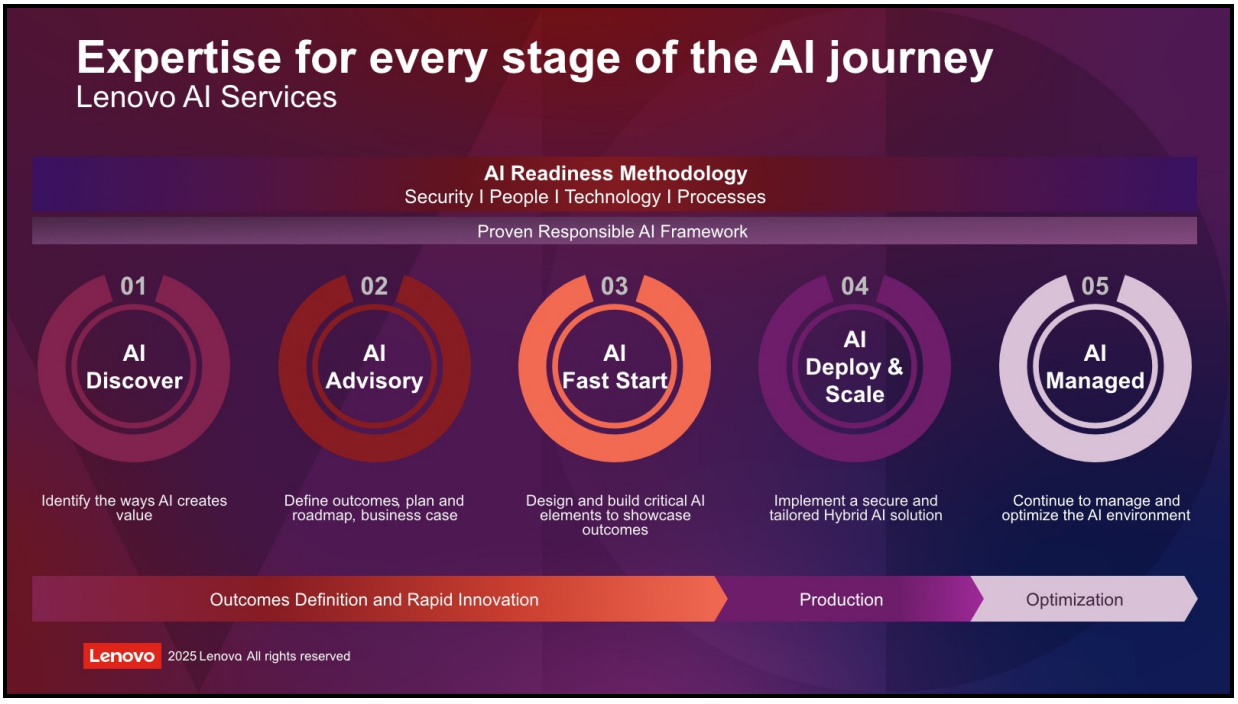

Figure 2. Lenovo AI Services Portfolio

A Trusted Collaboration for the Future

Enterprise AI demands more than advanced technology — it requires a trusted, strategic partnership.

Lenovo and NVIDIA have expanded their collaboration to deliver fully validated AI Factory solutions that **accelerate** innovation, **streamline** hybrid infrastructure, and **reduce** operational complexity. These offerings **address** the evolving needs of modern enterprises by **enhancing** productivity, performance, and security.

With a shared commitment to customer-valued innovation, the Lenovo–NVIDIA partnership **delivers** faster time to value and **drives** measurable business outcomes — from initial pilot to full-scale AI Factory.

Start your AI Factory journey with the Lenovo Hybrid AI 285 Platform.

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Related product families

Product families related to this document are the following:

- Artificial Intelligence

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This document, LP2221, was created or updated on May 19, 2025.

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