

# ThinkAgile VX Solution for SAP HANA

SAP HANA speed meets  
hyperconverged simplicity

## Hyperconverged simplicity in a VMware virtualized environment

The Lenovo Solution for SAP® HANA® on ThinkAgile VX offers businesses with SAP HANA deployments an opportunity to reap the efficiencies and cost savings of hyperconverged infrastructure powered by VMware vSAN technology. By migrating SAP landscapes and SAP HANA workloads from complex, multi-tiered legacy architectures to hyperconverged clusters, customers can enjoy the simplicity, scalability, and cost savings of hyperconverged infrastructure, which consolidates storage and compute into a single virtual pool. The result is a streamlined data center with reduced overhead and maintenance. Developed in close collaboration with SAP and VMware, the Lenovo Solution for SAP HANA on ThinkAgile VX provides mission-critical performance and 24/7 availability, plus easy scalability. The solution includes:

- VX650 V3 and VX850 V3 Certified Nodes utilizing the dramatic efficiency and cost savings of industry-leading VMware virtualization technology
- Two or four ultra powerful Intel® Xeon® Scalable processors
- Factory-integrated, validated, and preconfigured VMware ESXi hypervisor, vSphere server virtualization and vSAN storage virtualization software



- Built on award-winning ThinkSystem SR650 V3 and SR850 V3 servers.
- vSphere Lifecycle Manager (vLCM), for faster deployment, simplified patching and updating of software, and automation support, enabling you to simplify the management of your infrastructure
- SAP HANA solution support from Lenovo's SAP experts
- Optional Lenovo Premier Support for 24/7 single point of contact and a seamless customer experience

## Leverage advanced database functionality

SAP HANA is used by organizations worldwide to help accelerate decision-making and gain insights into key trends hidden within their data. Companies can instantly access, model, and analyze all of their SAP business transactional and analytical data from virtually any data source in real-time. Operations can be simplified using a single copy of enterprise data, data transactions processed in-memory for faster performance, and advanced analytics leveraged to make smart decisions in real-time.

Lenovo

Lenovo is an SAP market leader, having teamed with SAP for more than 30 years and shipped more than 50,000 SAP HANA systems. Lenovo's deep heritage with SAP translates into a seamless customer experience — from initial planning and architecture through deployment, lifecycle management, and support.

### ThinkAgile VX: tight integration with VMware

The ThinkAgile VX650 V3 and VX850 V3 Certified Nodes include vSAN-certified components and vSAN-certified firmware releases. They provide the simplest way to bring a new VMware hyperconverged environment online or they can easily integrate into an existing VMware environment.

### Deliver tremendous reliability

Successfully running SAP HANA analytics workloads requires outstanding performance and 24/7 availability, plus easy scalability. Businesses that can accomplish this with minimized operating expenses and footprint can gain a long-term advantage over their competition. You can't do better than Lenovo. For nine consecutive years, our systems have ranked #1 in the industry for x86 server reliability.\*

### Highlights

- Allows businesses to accelerate decision making and gain insights from their data
- Provides the simplicity, scalability, and cost-savings of a VMware hyperconverged infrastructure for SAP applications, including SAP HANA
- Optionally includes personalized, single point of contact support through Lenovo Premier Support
- Utilizes Lenovo's extensive expertise in the deployment and solution support of SAP HANA

Lenovo's deep heritage with SAP translates into a seamless customer experience — from initial planning and architecture through deployment, lifecycle management, and support.

### Accelerate SAP HANA workloads

Designed for any size business from SMBs through large enterprises, ThinkAgile VX650 V3 and VX850 V3 Certified Nodes include Lenovo Premier Support, a world-class support experience to ensure customers make the most of their ThinkAgile products and solutions. A dedicated Lenovo specialist will be a single point of contact and own the support case end-to-end, for a faster and more seamless resolution.

Additionally, in coordination with SAP, Lenovo's specialized SAP experts will provide SAP solution support.

Lenovo XClarity Integrator for VMware vCenter expands the virtualization management capabilities of vCenter with Lenovo XClarity systems management functionality. It provides the discovery, configuration, monitoring, event management, and power monitoring of Lenovo systems via a single, simple management interface. And because Lenovo servers hold more than 530 current world records for performance†, including records related to SAP HANA, your workloads will finish lightning fast.

### Bottom line

The Lenovo ThinkAgile VX Solution for SAP HANA enables businesses to accelerate decision making and gain insights into key trends locked in their data, while simplifying their IT infrastructure and driving down costs. The combination of preloaded easy-to-use VMware virtualization software on powerful, extremely reliable Lenovo hardware provides the ideal infrastructure platform for SAP HANA and other SAP applications.

SAP HANA for ThinkAgile VX solution

The Lenovo ThinkAgile VX Solution for SAP HANA includes the ThinkAgile VX650 V3 Certified Node for SAP HANA and the ThinkAgile VX850 V3 Certified Node for SAP HANA\* (*Pending final SAP certification on the SAP HANA hardware directory.*).

ThinkAgile VX SAP HANA Nodes

Supported SAP HANA Gen 3 configurations using 2 or 4 sockets

Model Name	ThinkAgile VX650 V3	ThinkAgile VX850 V3
Machine Type/Model	7D6WCTO3WW	7DDKCTO3WW
Processor	2x 4th Gen Intel® Xeon® Scalable processors	2x or 4x 4th Gen Intel® Xeon® Scalable processors
Memory	Up to 4TB (using 128GB TruDDR5 DIMMs)	Up to 8TB (using 128GB TruDDR5 DIMMs)
Drive Bays	Up to 24x 2.5"	
Disk Groups per node (OSA) <sup>1</sup>	2 / 4	
vSAN Nodes / Cluster	3-64 nodes	
Disks allowed (ESA)	Not Supported	
Disks allowed (OSA)	Cache: Any Lenovo Read-Intensive or Mixed-Use NVMe or SAS SSD (max 4) Capacity: Any Lenovo Read-Intensive or Mixed-Use SATA/SAS or NVMe SSD. (max 20)	
Network	Minimum 4 NIC ports required Recommended 4x 25GbE or higher	
Hypervisors Preloaded and Supported	VMware ESXi/vSAN 8.0 U1	TBD

*1 Each Productive SAP HANA VM requires a Disk Group .*

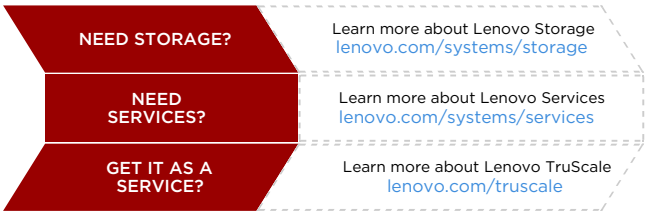
Additional resources

For more information, consult the following resources

- [SAP HANA Certification Listing](#)
- [SAP Best Practices](#)
- [SAP Reference Architecture](#)
- [ThinkAgile VX Best Recipe](#)

About Lenovo

Lenovo (HKSE: 992) (ADR: LNVGY) is a US\$62 billion revenue global technology powerhouse, ranked #171 in the Fortune Global 500, employing 77,000 people around the world, and serving millions of customers every day in 180 markets. Focused on a bold vision to deliver smarter technology for all, Lenovo is expanding into new growth areas of infrastructure, mobile, solutions and services. This transformation is building a more inclusive, trustworthy, and sustainable digital society for everyone, everywhere.



\* See the latest [ITIC Global Server Hardware and OS Reliability Survey](#) .

† Visit [Lenovo Servers Continue to lead the Industry in Performance and Value](#) .

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