



Lenovo Business Partner Onboarding

- Portfolio Overview -

Investing in our partners' success




1

Being open means offering the Data-Centered a breadth of open infrastructure solutions

Solutions


We work closely with our software partners to provide engineered, tested, and certified IT solutions that are high performance, scalable, and cost-effective.

AI	HPC
Big Data / Analytics	Hyperscale
Cloud	IoT / Edge
Database	Client Virtualization
Back Up & Disaster Recovery	


Infrastructure

Open, reliable and secure platforms that seamlessly integrate with your environment.


Servers	Hyperscale
Storage	IoT / Edge
Hyperconverged	




Enterprise Infrastructure



Software-Defined Infrastructure



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2

Being Open means a Global Partnership with Intel

Lenovo and Intel deliver the right High Performance and AI computing solutions to meet your business needs - **From Exascale to Everyscale™**

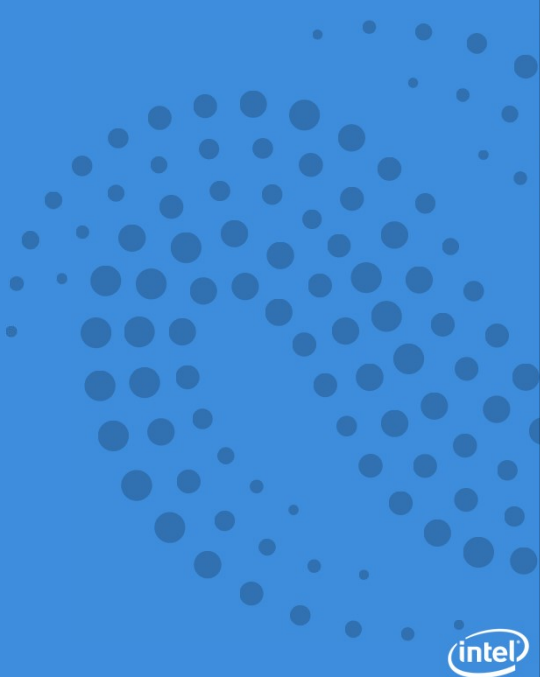


- 1 Get fast insights with HPC innovation**
 Innovate faster by leveraging maximum efficiency and performance using Lenovo's Everyscale innovation, fueled by Intel's latest technologies
- 2 Discover what's possible before deployment**
 Achieve breakthrough discoveries using HPC and AI on converged systems through offerings located in the Global Innovations Centers.
- 3 Adopt HPC faster with flexibility**
 Access HPC at Everyscale with Lenovo's flexible consumption models, industry-leading portfolio, and Intel Select Solutions



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ThinkSystem

and

ThinkAgile

Eddie Martin September 30, 2020




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UNIFIED BRAND

SERVER



STORAGE



ThinkSystem

The best combination of performance, flexibility, and reliability in the industry

World Record Performance

- Solving mankind's most complex challenges
- Real-time insights at the speed of digital business

Most Flexible Platform Design for Service Delivery

- Adaptable platforms span mission critical, dense, and software-defined
- Massive storage scale at cost and flexibility of public cloud

Industry-Leading Reliability


- Drives increased revenue and lowering OPEX

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HYPERCONVERGED INFRASTRUCTURE



SOFTWARE-DEFINED STORAGE



ThinkAgile

IT Agility

- Software defined infrastructure with foundational **ThinkSystem** platforms and ecosystem partners


Simplicity

- Simplified experience with planning, deployment and automated management


Transformative Experience

- Better end-to-end experience throughout the product lifecycle

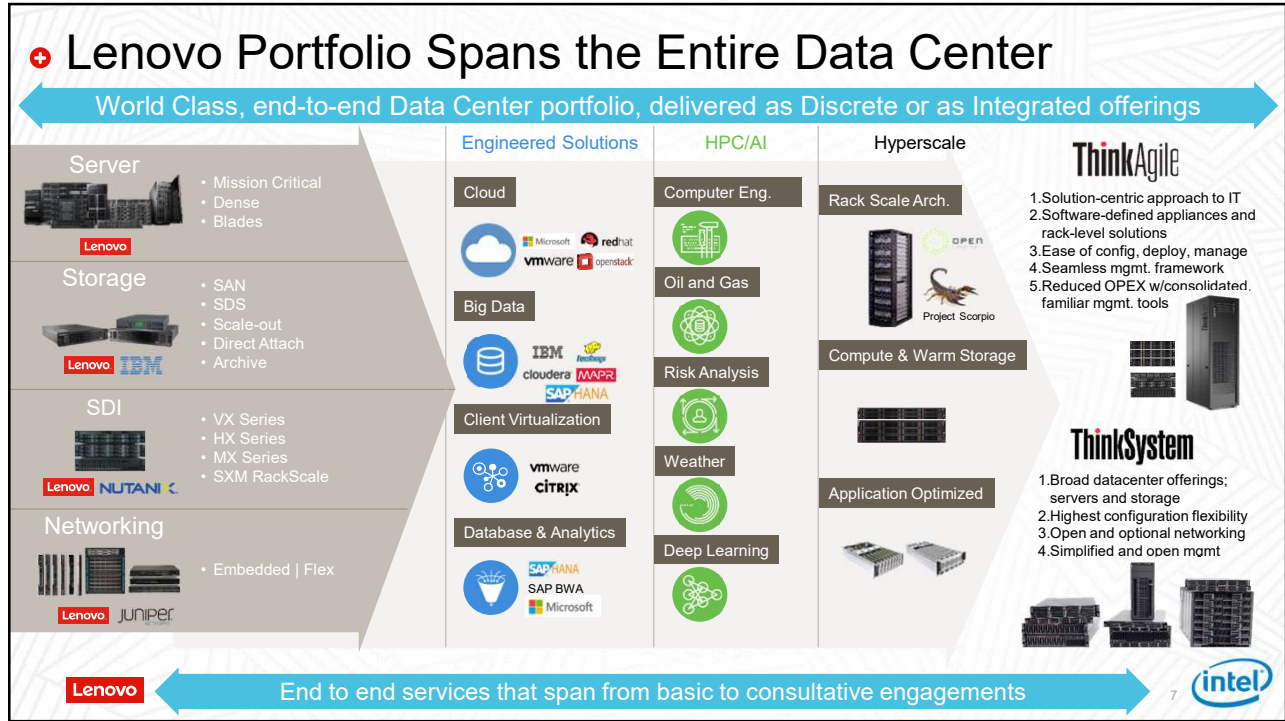
SOFTWARE-DEFINED INFRASTRUCTURE



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Server Platforms

Industry Leading Reliability—Servers for Cloud and Next-Gen IT

Racks and Towers

Most versatile platform for entry to business-critical workloads

Dense Systems

Space optimized with extreme performance and energy efficiency

Blades

Easily managed integration of compute, storage and networking

Mission Critical

For scale-up applications with the largest workloads

EDGE

Edge locations looking for a purpose-built server for traditional and IOT applications

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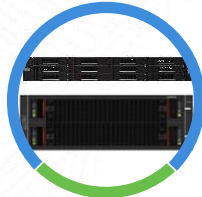
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+ Storage Platforms

Revolutionizing Storage Economics



SAN
 DE Series
 DM Series
 DB Series FC SAN
 Switches and
 Directors
 High performance
 shared storage



DAS
 D Series
 Capacity expansion
 for servers or
 storage



Archive
 Tape Drive,
 Autoloader, Library
 Low-cost long-term
 retention or
 infrequent access



DSS
 DSS-G
 Storage solutions
 for HPC and
 Distributed File
 Systems



+ Lenovo Systems Management

Customer-Centric, Strategic Partner-Based Approach

Lenovo XClarity



Integration and Scripting

Infrastructure Tools

Operations Management

Orchestration Engines

REST APIs



Simplify

Deliver hardware like software and automate complex infrastructure tasks

Accelerate

Accelerate and scale system deployment to reduce time to market of critical systems and workloads

Integrate

Deliver hardware with your IT apps by integrating with REST APIs, running available software plugins, or scripting



TRUSTED BY THE WORLD'S LARGEST BRANDS

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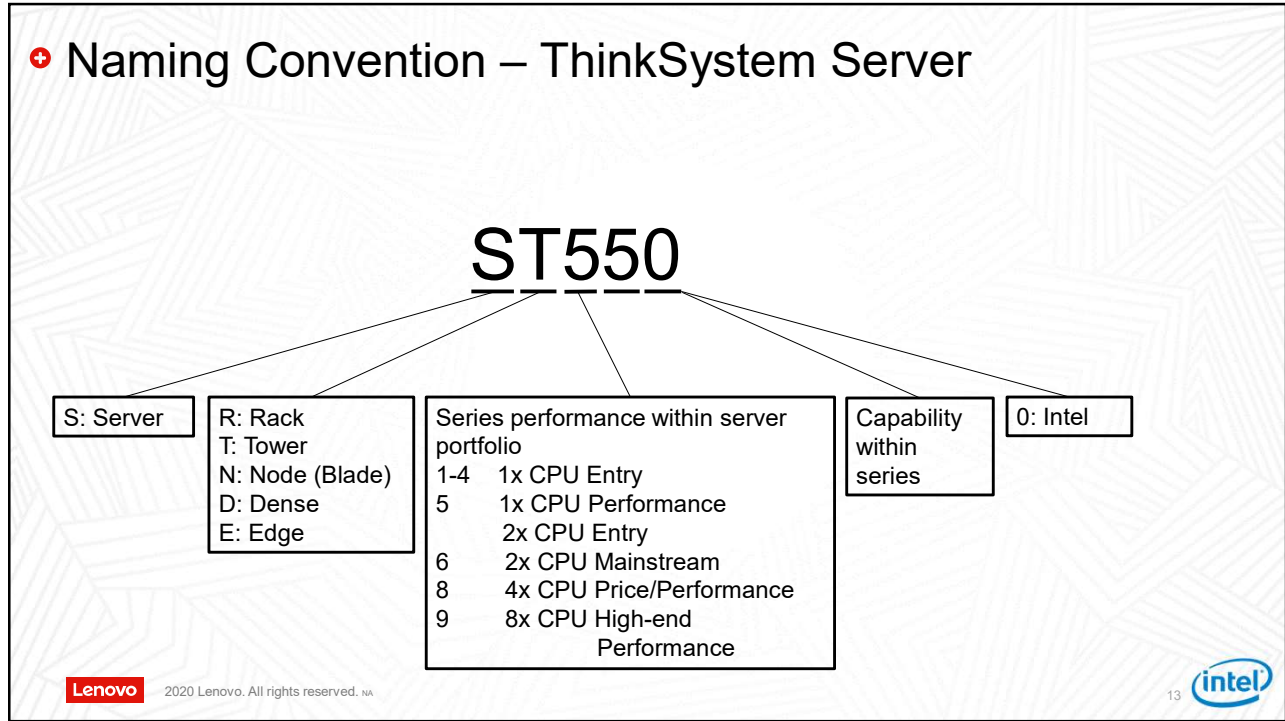
ThinkSystem Servers

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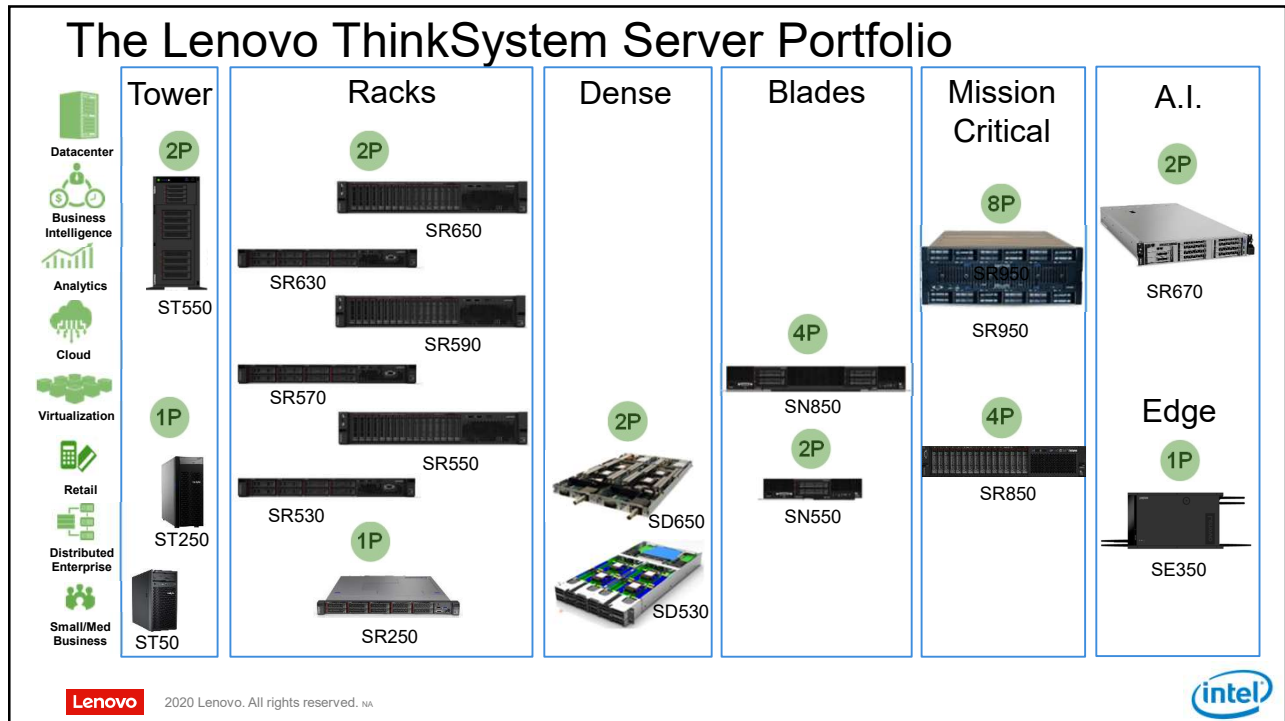
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+ Naming Convention – ThinkSystem Server



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The Lenovo ThinkSystem Server Portfolio



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+ Rack and Tower Servers

Leadership **cost / performance**



Versatile – platforms with strong balance of performance, memory capacity, storage and I/O options

Support for a wide range of diverse industries and business-critical workloads like basic infrastructure

Tower – Entry All-in-one server – can be converted to 4U Rack via conversion kit

Rack – Entry to Mainstream

Integrates better – unique XClarity design with RedFish integration (Open and Flexible)

Reduce costs – management and serviceability features that help lower TCO



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+ Single-Socket Server Portfolio

Enabling Small Business Success

ST50 1S Value Tower



Key Specs

- Support 1S 3rd Gen Intel® Xeon® Scalable processors
- 4 TruDDR4 2666 MHz UDIMMs
- Up to 4 3.5" NHS HDD/SSD
- 1x 1GbE onboard LAN
- 3x PCIe Slots
- **Management:** Intel AMT 12.0 XClarity Provisioning Manager Lite

Workloads
E-Mail / Work Group/ File & Print / Web/Office Automation



ST250 1S Mainstream Tower



Key Specs

- Support 1S 3rd Gen Intel® Xeon® Scalable processors (full stack)
- One Intel® Xeon® E, Core i3, Pentium Gold, or Celeron
- 4 TruDDR4 2666 MHz UDIMMs
- Up to 8 3.5" HDD/SSD
- Up to 16 2.5" HDD/SSD
- SW & HW RAID
- 2x 1GbE onboard LAN
- 4x PCIe Slots
- Fixed & RDN PSU (Platinum)
- Fixed Fan (Support Redundancy)
- **Management:** Lenovo XClarity Mgmt

Workloads
E-Mail/Work Group/File & Print/System Management/ Data backup/Web/Office Automation



SR250 1S Mainstream Rack



Key Specs

- Support 1S Intel Coffeelakeprocessors (full stack)
- 4 TruDDR4 2666 MHz UDIMMs
- Up to 4 3.5" HDD/SSD
- Up to 10 2.5" HDD/SSD
- Up to 2 2.5" NVMe SSD
- SW & HW RAID
- One Intel® Xeon® E, Core i3, Pentium Gold, or Celeron
- 2x 1GbE onboard LAN + 1 manage port
- 3x PCIe slots
- Fixed/RDN PSU (Gold/Platinum)
- **Management:** Lenovo XClarity Mgmt

Workloads
IT Infrastructure / Web / Entry Cloud / Virtualization / Database / Data Analytics











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+ 2-Socket Rack and Tower Server Positioning


2P Racks & Tower					
Value		Value +		Mainstream	
1U	2U	1U	2U	1U 2U	
 SR530 2 x processors up to 125W 12 DDR4 DIMMs Up to 4 3.5" HDD/SSD Up to 8 2.5" HDD/SSD SW & HW RAID 2x 1GbE onboard LAN 1GbE, 10Gb LAN Choices <i>IT Infrastructure/Web/Entry Cloud/Virtualization</i>	 SR550 2 x processor up to 125W 12 DDR4 DIMMs Up to 12 3.5" HDD/SSD Up to 16 2.5" HDD/SSD SW & HW RAID 2x 1GbE onboard LAN 1GbE, 10Gb LAN Choices <i>IT Infrastructure/Web/Entry Cloud/Mail server/Scale Out</i>	 SR570 2 x processors Up to 150W 16 DDR4 DIMMs Up to 4 3.5" HDD/SSD Up to 8 2.5" HDD/SSD Flexible LAN up to 4 ports 1GbE, 10Gb LAN Choices 4 x NVMe support Hotswap fan support <i>Collaborative/IT Infrastructure/Web/ Business Process/POS</i>	 SR590 2 x processors Up to 150W 16 DDR4 DIMMs Up to 12 3.5" HDD/SSD Up to 16 2.5" HDD/SSD Flexible LAN up to 4 ports 1GbE, 10Gb LAN Choices 4 x NVMe support Hotswap fan support Tower / 4U  ST550 2 x processors 12 DDR4 DIMMs Up to 8x 3.5" & 20x 2.5" HDD Up to Hybrid 8x 3.5"+4x 2.5" 2x 1GbE onboard LAN	 SR630 2 x processors 24 DDR4 DIMMs Up to 12 2.5" HDD/SSD Up to 4 3.5" HDD/SSD HW RAID Flexible LAN up to 4 ports 1GbE, 10Gb LAN Choices 10 x NVMe support <i>IT Infrastructure/Web/ Enterprise Cloud/ Virtualization/Database</i>	 SR650 2 x processors 24 DDR4 DIMMs Up to 24 2.5" HDD/SSD Up to 14 3.5" HDD/SSD HW RAID Flexible LAN up to 4 ports 1GbE, 10Gb LAN Choices 24 x NVMe support <i>IT Infrastructure/Web/ Enterprise Cloud/Database/ Data Analytic/Virtualization/ Hyper-Converged</i> 

Performance ↑ Cost →

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+ Mission Critical Servers





Better uptime
Build-in Reliability Availability Servicability features


Scalability – Unique ability to scale up to 8 processors


High density – 4 CPUs on 2U rack or Blade


Maximum performance – optimized for leadership performance in large memory applications like SAP HANA



 ERP, CRM & Business Logic


 Business Analytics


 In Memory Database

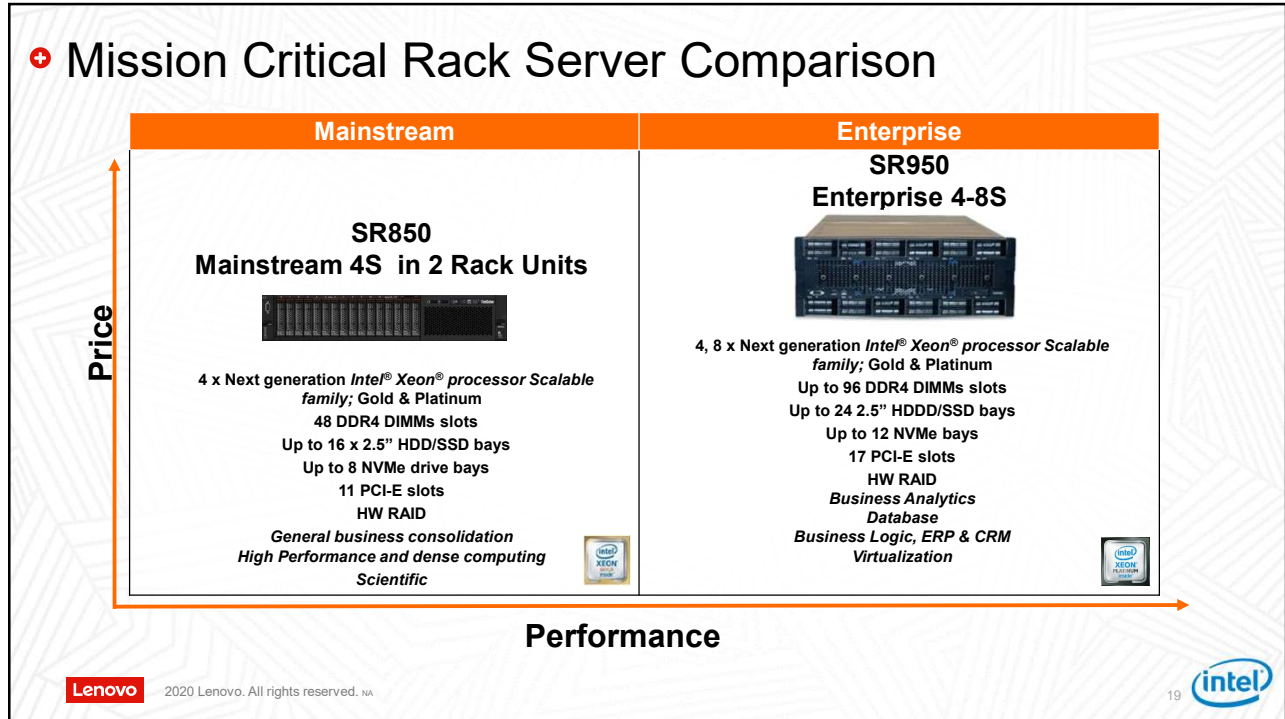

 OLTP and Database


 Hi-performance Applications


 Enterprise Virtualization

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+ Lenovo & SAP HANA

intel select solution

Lenovo is a SAP HANA market leader with over **8000** units shipped


Next generation SAP HANA was developed using ThinkSystem SR950

Delivers lower TCO and on-going investment protection

Helps SAP run their business, and deliver the next generation of cloud applications

Value to leverage corporate data

- Drive top line and bottom line revenue
- Improve decision making and operational efficiency
- Drive business transformation and strategic change



Up to
31%
lower TCO

Leader
8000+
shipped

SAP HANA
Innovation
Award

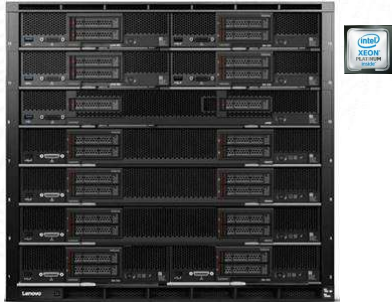
Performance
Records
for SAP

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+ Blade Systems



Composable Infrastructure Solution

- 2 and 4 CPU Socket Server Nodes
- Up to 14 Nodes / 28 CPUs in one Chassis – Dense, smaller footprint
- Shared Networking and Centralized Management
- Minimize cabling

Proven – same Flex chassis – different CPU generations working concurrently

Flexible – Midplane connecting servers with shared resources supports up to 100Gbps Networking enabling high performance workloads and protecting investment in the future

Integrates better – Leadership system management that leverages industry standards like RedFish



+ Blades | Flex

- Composable Infrastructure Solution
 - Updated 2 and 4P Blades
 - 28 core CPUs with faster memory
 - LAN Direct—4x10GbE LOM—no mezz card needed
 - High performance **mesh topology** (4P)
- Same Flex Chassis!
 - Houses four generations of CPUs concurrently
 - 40% more dense than rack systems
 - New! 25Gb switch & mezz card
 - Optimized and zoned cooling supporting the highest available CPU & RAM configurations
 - Midplane supports 100Gb per server node
 - Carrier grade NEBS level 3 compliant choice for rugged Telco environments

SN550
2P ½ Wide



SN850
4P Full Wide



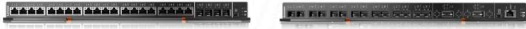
Flex Enterprise
Chassis



+ Switches | Flex

Flex System Networking

Ethernet, Fibre Channel, Infiniband connectivity for Flex Systems



ThinkSystem Flex Switch

25G/100G



Cloud / Virtualization



Analytics



General Purpose Enterprise Workloads



Infrastructure



VDI



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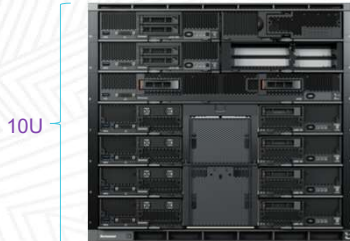
Scalability – unlock additional ports with *Features on Demand* instead of removing & adding more switches

Flexibility – Reallocate internal and external ports as needed with *Flexible Port Mapping*

Management without complexity – *Flex System Interconnect Fabric* simplifies management of large-scale clusters—manage 9 switches as one

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+ Investment protection with the Flex Chassis



10U

Flex System Enterprise Chassis

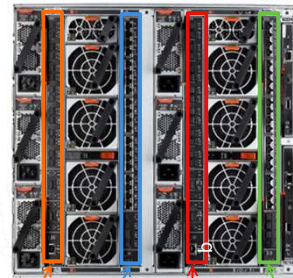


11U

Flex System Carrier Grade Chassis

Key Feature	Benefit
Optimized and zoned cooling	Servers support highest available CPU & RAM configurations
Midplane supports up to 100Gb per server node	Investment protection
Carrier grade NEBS level 3 compliant choice	Ideal for rugged Telco environments

Internal switches provide communication between servers without need to go to ToR Switches



6 x PSU
10 x Fan
2 x CMM
4 x Switch

Redundant CMM's

Switch 1 Switch 2 Switch 3 Switch 4



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+ Lenovo Flex System Carrier-Grade Chassis



This Carrier-Grade Chassis is designed to **NEBS level 3** and **ETSI certification** levels and for operation within **earthquake Zone 4 areas**.

The chassis also includes dust filters and -48V DC power operation, as required for many Central Office telco environments.

ASHRAE 4 compliant – normal operation up to 45 °C
Temporary up to 55 °C for long as 4 days.

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+ Chassis Management Module v2

- The Chassis Management Module (CMM2) provides the following functions:
 - Power control and power policies
 - Fan management
 - Chassis and compute node initialization
 - Switch management
 - Monitor the status of the chassis components
 - Diagnostics
 - Resource discovery and inventory management
 - Resource alerts and monitoring management
 - Chassis and compute node power management
 - Network management
- There is one CMM2 as standard, maximum two can be installed – second one for redundancy only
- Supports up to 32 simultaneous sessions



Security policy settings:

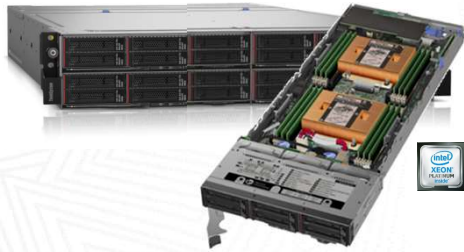
- **Secure**
 - Strong password policies
 - Updated passwords after the initial setup
 - Only secure communication protocols SSH, SSL
 - Certificates to establish secure, trusted connections
- **Legacy**
 - Weak password policies with minimal controls
 - Manufacturing default passwords can be used
 - Decrypted communication protocols, such as Telnet, SNMPv1, TCP Command Mode, FTP Server, and TFTP Server

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+ Dense Systems



Better workload optimization – Ultra-dense 2U 4N system for HPC, hyperconverged and general purpose workloads

Better performance – design that supports unique IO shuttle, Omnipath and EDR Infiniband for HPC

Integrates better – Leadership system management that leverages industry standards like RedFish

Improve energy efficiency by 15%

Easier management – up to 7 Chassis and 28 Servers can be daisy chained together and managed via single ethernet port



Research



HPC Centers



Cloud Computing



Analytics



Modeling



Distributed Enterprise



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+ The Lenovo Dense Server Portfolio



HPC Centers



Research



Analytics



Modeling



Cloud Computing



Distributed Enterprise



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Dense

2P



SD530 Four Compute Nodes in D2 Enclosure



SD650 facing-left rear view - water cooling only



D2 Enclosure Rear View and Shuttle



SD530 Compute Node HDDs Extended Straight-on Front View



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+ Develop on Lenovo AI Products


The right resources to get started

TRAINING PLATFORMS





ThinkSystem SR650
2U, 2 Intel® Xeon®,
Big Data Platform







ThinkSystem SD530
2U, 2 x 2 Intel® Xeon®,
2 x 2 NVIDIA Tesla V100







ThinkSystem SR670
2U, 2 Intel® Xeon®,
4 x 2 NVIDIA Tesla V100




Increasing performance 





ThinkSystem SD530
2U, 4 x 2 Intel® Xeon®







ThinkSystem SR650
2U, 2 Intel® Xeon®,
2 NVIDIA Tesla P100






ThinkSystem SD530
2U, 2 x 2 Intel® Xeon®,
2 x 2 NVIDIA Tesla V100






LiCO v5.1
LiCO for AI
A single software stack
to efficiently manage
HPC and now AI
workloads




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+ SR670 Marketing Message



Front View



Rear View

Accelerator Optimized

- Support the latest accelerator technology
- Support: 1:1 (1 socket to 1 GPU) - traditional HPC requirement
- Support: 1:2 (1 socket to 2 GPU) - emerging requirement for HPC and AI

Flexible and Compact


- Flexible configurations tailored for required workloads
- Support Intel Xeon® Processor and up to 24 x DDR4 DIMMs
- Multiple IO Options
- Compact Storage Options (SATA, M.2)

Optimized for HPC and AI


- Highly customizable to the specific use case
- Enterprise grade quality for maximum scale

Feature	ThinkSystem SR670
Form Factor	<ul style="list-style-type: none"> • 2U Rack-mount • Support up-to 4 GPUs from NVIDIA • Dual Socket Intel® Xeon® Scalable processor Architecture • Up-to 24x DDR4
Processor	<ul style="list-style-type: none"> • Support for dual-socket Intel® Xeon® processors (up to 205W)
Memory	<ul style="list-style-type: none"> • DDR4 RDIMM ECC • 16GB/32GB
Storage	<ul style="list-style-type: none"> • Max 8 x 2.5" SATA (Non Hot Swap) • M.2 Adapter (Single Drive, Dual Drive, Mirrored)
Raid	<ul style="list-style-type: none"> • Standard RAID SATA SW RAID 0/1/5/10 from chipset
Cooling	<ul style="list-style-type: none"> • Non hot-swap, redundant fans • Support ASHRAE A2/3/4*
Networking	<ul style="list-style-type: none"> • Two PCIe 3.0 x16 slots • One PCIe 3.0 x4 slot
Management	<ul style="list-style-type: none"> • Lenovo System Management (XCC) • LiCO • Redfish, BoMC, LXCE/OneCLI
USB Port	<ul style="list-style-type: none"> • USB 3.0 Port + USB 2.0 Port on the front of chassis • Serial port on the rear of chassis
VGA Port	<ul style="list-style-type: none"> • VGA video connector on the front of chassis
Power Supply	<ul style="list-style-type: none"> • Hot-swap redundant 1+1 2000W

*ASHRAE A2 w/ GPU present

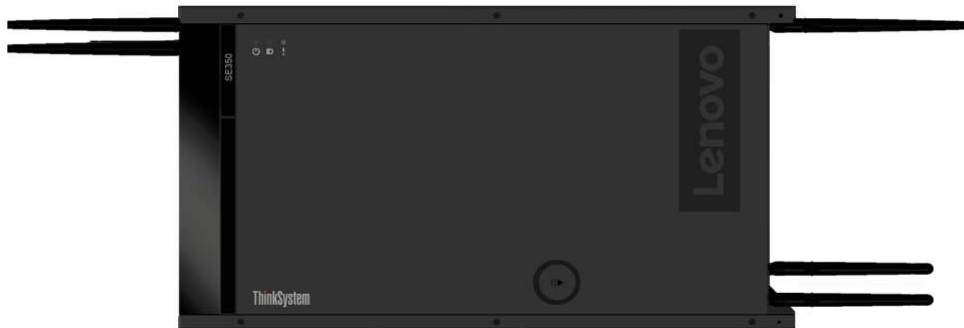


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+ ThinkSystem SE350 Edge Server



Target customer:

All Edge locations looking for a powerful, purpose-built server to handle both traditional and IoT applications and have limited IT expertise at their Edge locations
Retail, Telco, Manufacturing, Distribution

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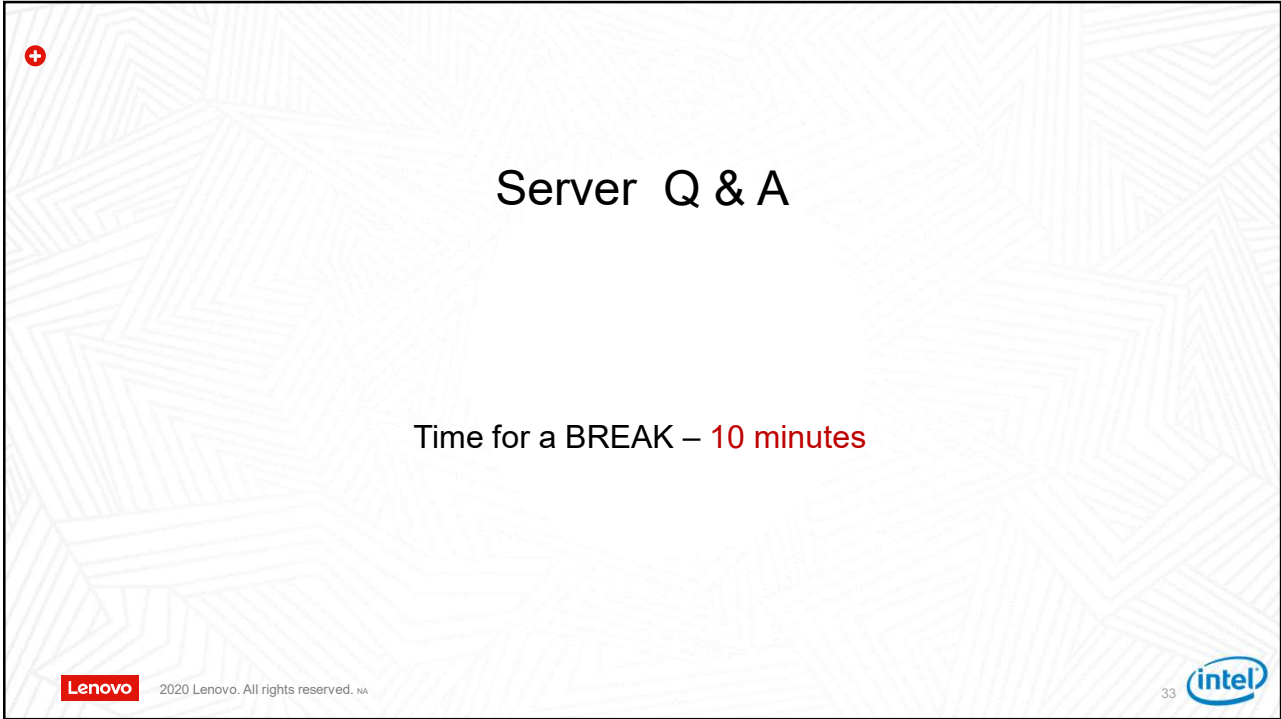
+ ThinkSystem SE350 Edge Server – Overview

- **A unique form factor**, compact in design, perfectly suited for remote non-datacenter locations. Mountable on a flat surface, in a rack, on a wall or DIN rail in any environment.
- **Unique environmental support** - the ThinkSystem SE350 is designed to perform in extended operating temperatures from 0-55C and also provides protection in dirty environments with a dust filter.
- **Runs on AC/DC, 12V and -48V DC power supplies**, the standard for Central Offices and other telco installations. The chassis is NEBS Level 3 compliant for increased safety.
- **Highly secure** with tamper detection, locking bezels, and encrypted storage
- **Simplified and secure management** thru Lenovo XClarity
- **Multiple connectivity** and configuration networking options with LTE/WIFI and 10GbE

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Server Q & A

Time for a BREAK – 10 minutes

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ThinkSystem Storage

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+ Lenovo ThinkSystem Storage Portfolio

ThinkSystem DE Series



Lenovo Performance Block

- Entry to high performance
- AFA and Hybrid Block
- Lenovo xClarity support
- MFG & Supported by Lenovo

ThinkSystem DM Series



Lenovo AFA & Midrange Unified

- ONTAP Data Management
- Cloud Tiering
- Lenovo xClarity support
- MFG & Supported by Lenovo

- Deliver complete end to end storage portfolio
- Differentiated technology and data management

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+ DE Series Core Values

Block Storage

FAST – leading price and performance

Driving value while reducing costs

- Up to 1M IOPS with submillisecond latency response times
- Up to 21GBps read throughput

SIMPLE - optimized for integrated solutions

Best-in-class solutions for integrated appliances

- Modular host interface flexibility, Various drive and expansion options
- Plug-ins, APIs
- XClarity integration

RELIABLE – leading durability and reliability

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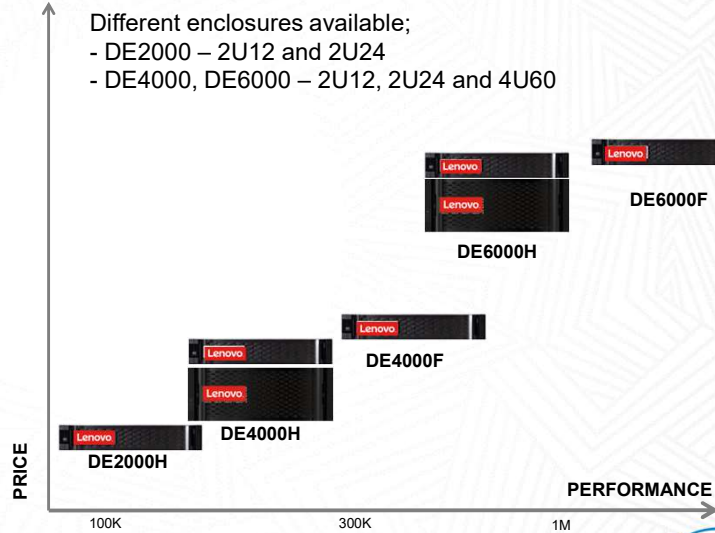
+ DE Series Offering Overview

All Flash

- Maximum leadership price / performance
- Latency sensitive apps

Hybrid

- Most cost effective
- Streaming data
- Mixed workloads
- Backup and recovery

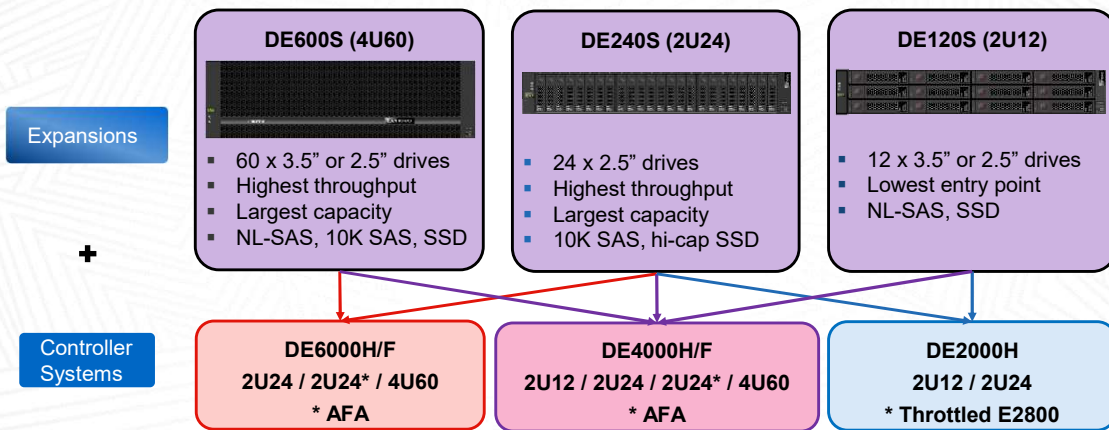


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+ DE Series Product Matrix









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+ DE-Series Controller Firmware Features

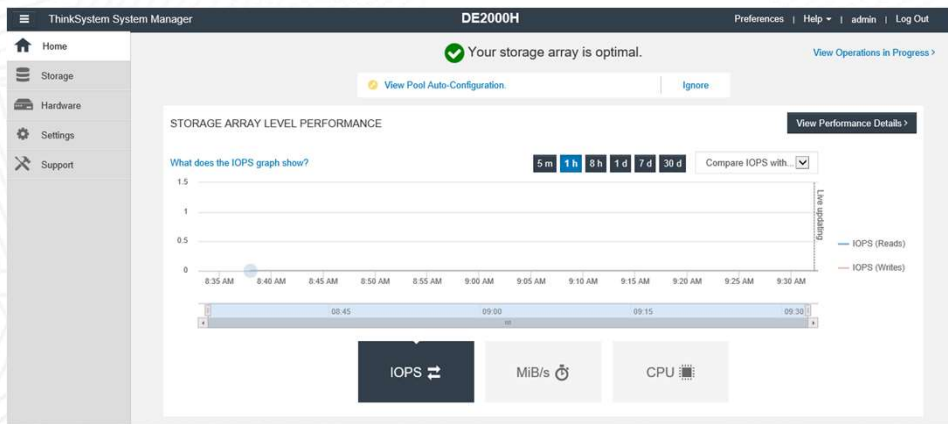
 <p>Dynamic Disk Pools 8 times faster rebuild (minutes, not days) and continuous high performance during drive rebuild</p>	 <p>SSD Cache and Hybrid Storage Expedited access to "hot" data through automated, real-time caching to SSD; mix and match SSDs and HDDs</p>	 <p>Snapshot and Volume Copy More precise recovery point objectives and faster recovery</p>
 <p>Thin Provisioning Improves storage use by up to 35% and eliminates overprovisioning</p>	 <p>Mirroring (Sync and Async) Cost-effective enterprise-class disaster recovery of data with FC and IP replication 1 to 1 only</p>	 <p>Encrypted Drive Support Extended security enhancements for compliance and regulations</p>

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+ ThinkSystem System Manager

- Manage your DE Series system anytime, anywhere
- Easy-to-use, on-box, web-based interface
- Automated workflows and intelligent provisioning defaults
- Enhanced performance monitoring and tuning actions
- Manage role-based access control, audit log, and other security features



Embedded on DE-Series

Requires No Installation

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+ DE Series Storage Summary

Lenovo ThinkSystem DE Series AFA and Hybrid Arrays



- Offering**
 - Entry and Mid range SAN Block storage portfolio
- Segment**
 - Entry Block (SAN) and AFA workloads
- Target Market**
 - Entry Level / Departmental / ROBO
 - Shared Data Center / OLTP databases / Video Surveillance
- Value Proposition**
 - Unmatched Value on performance and price
 - Proven simplicity
- Key Features**
 - AFA models
 - Dynamic Disk Pools
 - SSD cache and Hybrid storage
 - Thin provisioning
 - Advanced Snapshot
 - Synchronous mirroring and Asynchronous replication
 - XClarity integration supporting storage alerts

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+ DM Series Core Values

Unified Storage

PERFORMANCE

Customers can, with the click of a button, set their own performance rules for individual workloads.

EFFICIENCY

Thanks to advanced data reduction technologies, which work across all of the unified workloads, customers see on average of 5:1 space savings.

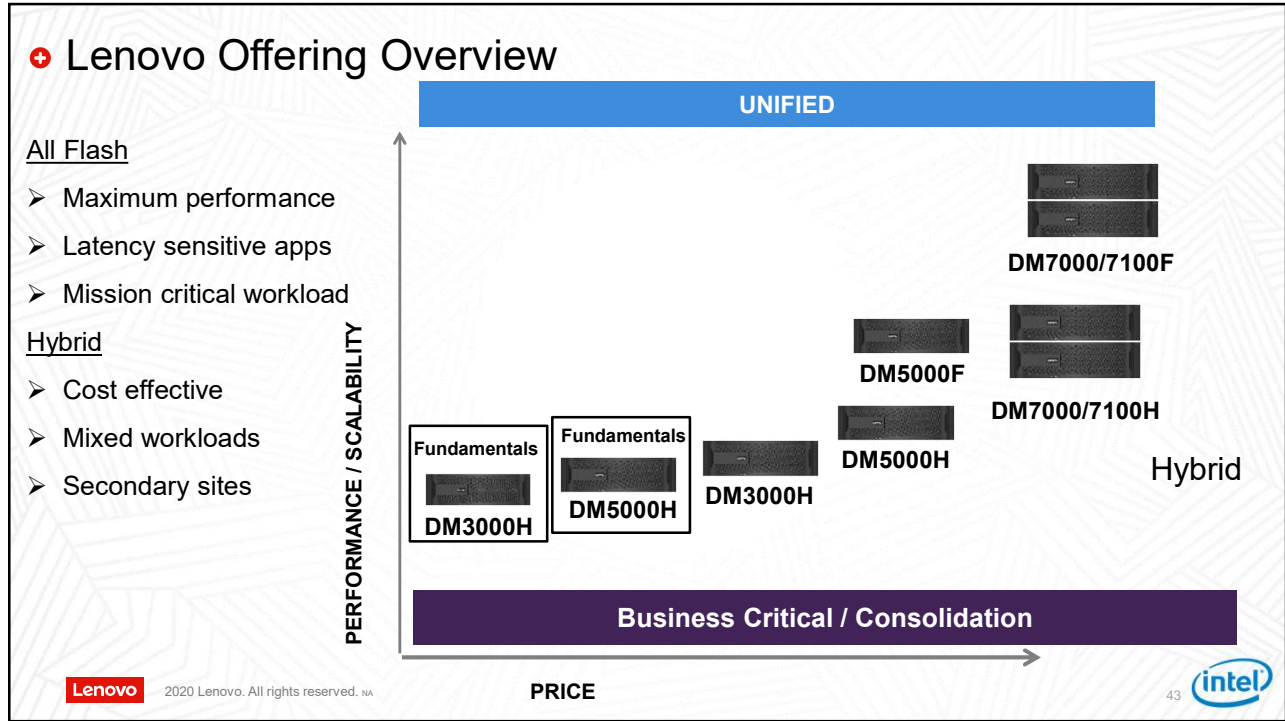
SECURITY AND COMPLIANCE

Software encryption is included standard, so customers can encrypt their data with the click of a button.

FUTURE-PROOF STORAGE

Your customer's investment is protected because they can always scale a single array up or scale out by clustering. They can also move cold data to the cloud for cost-effective storage.

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+ DM Series Enclosures

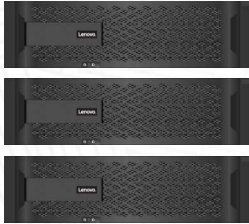
	DM3000H	DM5000H / F	DM7000H / F	DM7100H / F
Form factor	2U12	2U24	3U0	4U0
Max # Drives	144	144	480	720

	DM120S	DM240S	DM600S	DM240N
Size	2U	2U	4U	2U
IO Connectivity	12Gb SAS			100Gb Eth
Max Drives	12	24	60	24
Drive Form Factor	3.5"	2.5"	3.5"	2.5"
Drives Supported	4TB 7K HDD 8TB 7K HDD 10TB 7K HDD	960GB SSD 3.84TB SSD 7.68TB SSD 15.36TB SSD 900GB 10K HDD 1.2TB 10K HDD 1.8TB 10K HDD	4TB 7K HDD 8TB 7K HDD 10TB 7K HDD	960GB NVMe SSD 3.84TB NVMe SSD 7.68TB NVMe SSD 15.36TB NVMe SSD

intel 43

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+ DM Series Storage Summary



Lenovo Storage DM Series AFA and Hybrid Arrays

- Offering**
 - Broad mid-range unified storage portfolio
- Segment**
 - Midrange Block and File (SAN & NAS) workloads
- Target Market**
 - Mid-market, SMB, and enterprise
- Value Proposition**
 - Ultimate workload efficiency with unified architecture
 - Simplified configuring and ordering for mid-range storage
 - Future-proof growth with flexible scale up and scale out architecture
- Key Features**
 - Data reduction including inline deduplication and compression
 - Guaranteed workload performance using Quality of Service
 - Latest NVMe technology support
 - Software encryption with embedded key manager
 - Advanced, application-aware snapshots
 - Synchronous mirroring and Asynchronous replication

+ ONTAP: Modernize your Storage

mature Storage OS – 25 years on the market

Performance assurance made easier

- Adaptive QoS: Automatically adapt QoS levels to changes in the workload



Remarkable performance

- Improve Flash network performance with NVME over FC with up to 55% latency improvement



Unbeatable Storage Efficiency

- Optimized compression, deduplication and compaction to increase space savings
- Works across all workloads with average of 5:1 data reduction



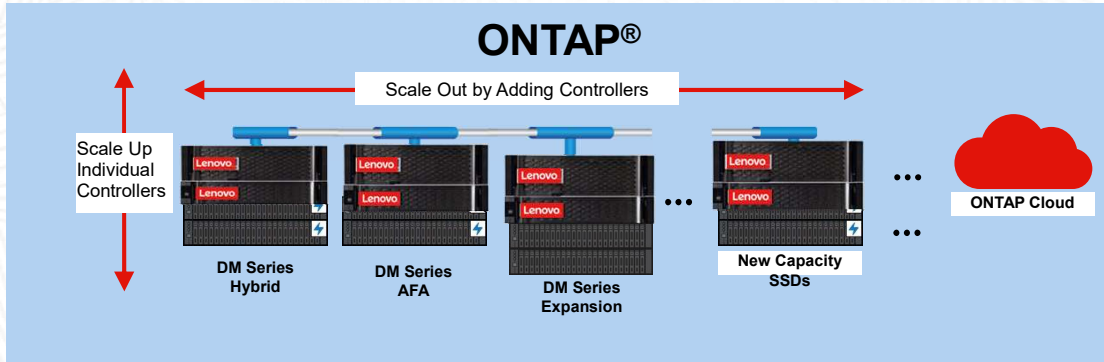
Strong security, plus compliance capabilities

- Software encryption with option for external key management for NVE, multi-factor authentication (GDPR & FIPS with cryptographic shredding)
- Apply compliance policies for legal holds and event-based retention

Integrated protection for Continuous Availability and Disaster Recovery

- Space-efficient Snapshot technology, near-instant backup and recovery with the SnapVault backup solution, and synchronous and asynchronous replication with MetroCluster software and SnapMirror technology

+ Scalability & Simplified Data Management



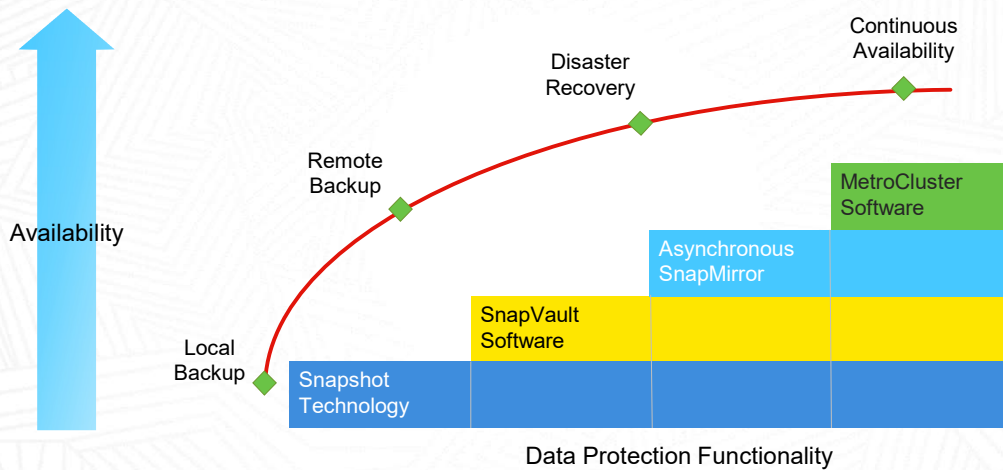
- Scale out by intermixing your choice of flash and hybrid nodes – up to 12 nodes
- Upgrade hardware/software or scale up without disrupting users – single array up to 140 PB overall capacity
- Scale to the public cloud by tiering cold data

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+ Integrated Data Protection



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+ Your ONTAP choices

Fulfill wide range of customer needs with two ONTAP offerings

ONTAP Fundamentals

- Available on DM3000H & DM5000H
- Includes:
 - Unified Storage
 - Asynchronous replication
 - SnapRestore
 - Scale up to 84 drives

ONTAP Premium

- Available on all DM Series
- Everything in Fundamentals **plus**:
 - Synchronous Replication
 - SnapCenter
 - MetroCluster
 - Scale up and out

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+ Offering Overview & Positioning

- Based off Brocade Gen 6 Fibre Channel networking
- Lenovo branded - Ideal for connecting to Lenovo servers with FC HBA's & Lenovo storage with FC ports



ThinkSystem DB610S ThinkSystem DB620S

- Entry / Mid Top-of-Rack Switch
- Ideal for 1-16 / 40 servers
- 1U, up to 24 / 48 x 32G SFP+
- Single / redundant power supply
- Only DB620S:
- Optional 4 x 128G QSFP ports
- 2 Tbps total bandwidth



ThinkSystem DB630S

- Mid-range Top-of-Rack Switch
- Ideal for up to 100+ servers
- 2U, up to 128 x 32G SFP+
- Optional 8 x 128G QSFP ports
- 4 Tbps total bandwidth
- Two hot-swap power supplies
- Three hot-swap fan assemblies



ThinkSystem DB400D/DB800D

- Director Class - Mid-size/Large Enterprises
- Ideal for 140+ servers
- 9U, four blade slots, up to 256 x 32Gb SFP+ ports & 16 x 128Gbps ICL ports
- 14U, four blade slots, up to 512 x 32Gb SFP+ ports & 32 x 128Gbps ICL ports
- 99.999% Availability – PS, Fans, CR & CP blades, WWN cards

Performance and Functionality

Price & Availability

Server HBA's
Storage Array



EMULEX 8/16/32 Gbps Adapters

Lenovo DE or DM Series Storage

8/16/32 Gbps Support

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+ Product positioning DAS JBOD

The D1212/D1224/D3284 delivers maximum capacity and performance at an affordable price for single server

	TRADITIONAL	HIGH DENSITY
D1224	2U Rack mount 24x 2.5" HDD Up to 8 total units chained max 192 drives – 2.94 PB capacity	D3284 5U Rack mount 84x 3.5" HDD Up to 4 total units chained max 336 drives - 4.0 PB capacity
D1212	2U Rack mount 12x 3.5" HDD Up to 8 total units chained max 96 drives – 1.15 PB capacity	

DAS Target Workloads:

- Big Data - Hadoop
- SAP HANA
- Server virtualization
- Extreme capacity for backup / archive or cold storage solutions

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+ Archival Solutions

- **Cost-effective** – high capacity backup archive storage for long-term data retention – Media life up to 30 years
- **Secure** – protection and security with encryption to support long-term data retention requirements for compliance
- **Flexible** – backwards compatible to support older generation media

	TS2270 / TS2280	TS2900	TS4300
Positioning	Entry Designed for capacity requirements of less than 30TB compressed	Entry Compact tape library designed for capacity requirements greater than 30TB compressed	Entry / Midrange Designed to offer outstanding capacity, performance and reliability for midrange and network tape storage environments
Form factor	1U	1U	3U
Max # drives	1	1	3 to 21
Max # cartridges	1	9	32 to 272

Backup / Recovery Remote Archive Secure Data Retention Regulatory Compliance

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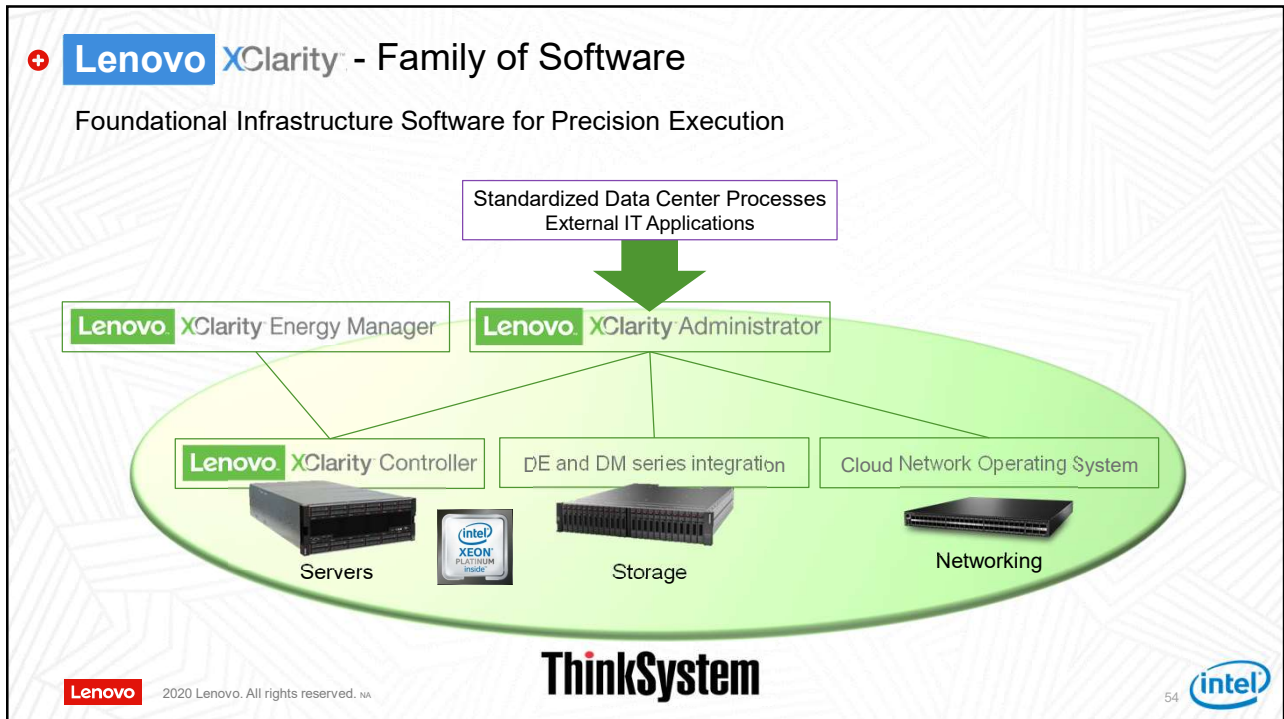
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Lenovo
XClarity™

Lenovo System Management

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+ XClarity Approach to Data Center Management

XClarity Energy Manager

Visibility and Policy-Based Control Over Server Power and Thermals

XClarity Integrators

Deliver ThinkSystem and ThinkAgile from Your Own IT Processes and Tools

XClarity Administrator, Pro, and Mobile

Fast, Flexible, and Scalable Infrastructure Deployment

XClarity Essentials

Suite of Utilities for ThinkSystem Servers

XClarity Provisioning Manager

Embedded Provisioning Tool Common in All ThinkSystem Servers

XClarity Controller

Embedded Management Engine Common in All ThinkSystem Servers

Lenovo Capacity Planner

Power consumption evaluation tool

Integrates with existing environments

Easily extends established frameworks for managing IT infrastructure and processes

Simplified management

No specialized training or skills needed to establish repeatable processes for managing the environment or individual systems

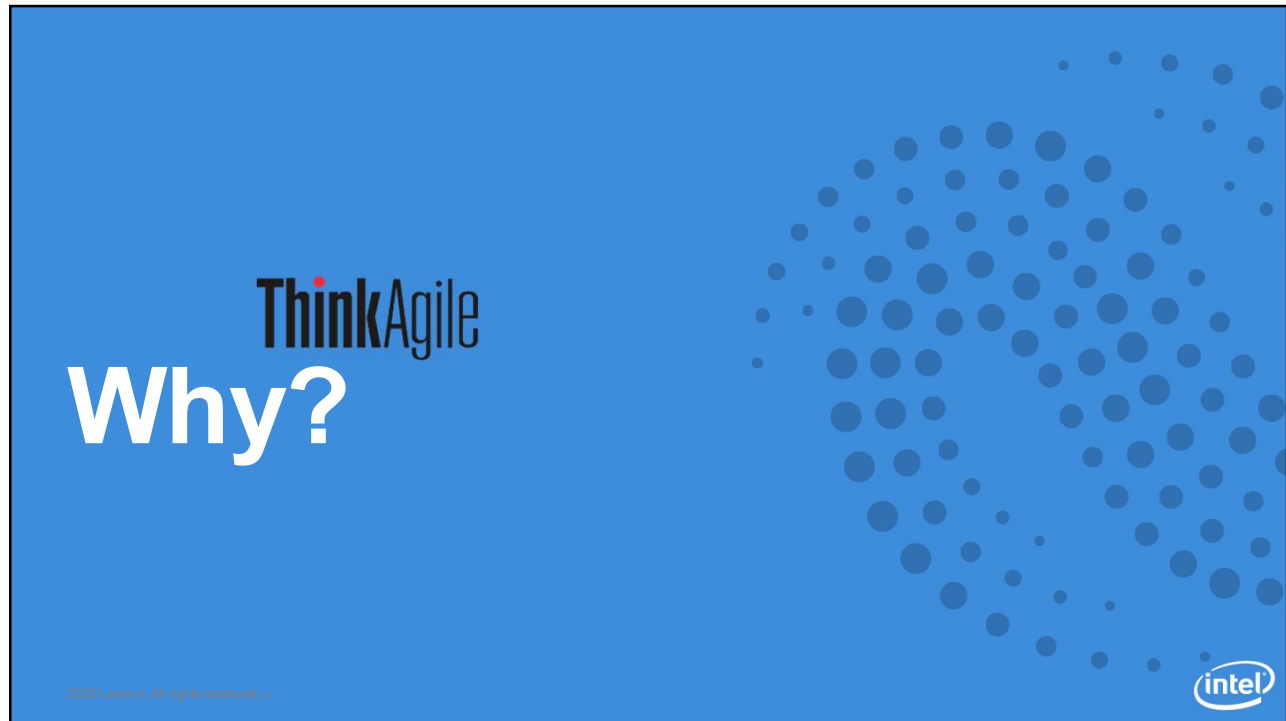
A foundation of industry standards

Increase compatibility with management environments making it easier to deploy new technologies



Storage Q & A

Time for a BREAK – 10 minutes



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+ Why Customers Choose to go to the Cloud?

WHAT IS CLOUD?
 An IT **Delivery & Consumption Model** to provide infrastructure resources, applications and services *on-demand* or by *subscription*.
 An IT **Operating Model** that can *easily adapt* to meet changing application and service requirements.

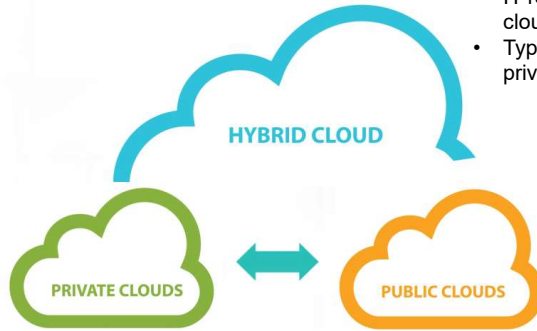
- Streamlines operations
- Provides IT agility
- Lessens the burden of administrative duties
- Provides more time for innovation

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58 **intel**

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+ Cloud Deployment Models



- IT resources provisioned from two distinct cloud infrastructures.
- Typically this is a combination of public and private clouds.

- IT resources provisioned for exclusive use by single organization.
- Infrastructure may be located on-premise or may be outsourced.

- Infrastructure shared with general public.
- IT provisioned by the Cloud service provider.
- Infrastructure is off premise.

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+ Cloud Service Models



Infrastructure as a Service (IaaS)

A fully-automated, self-service facility for IT consumers to obtain fundamental computing, networking, and storage resources for arbitrary application use cases.

e.g. AWS EC2/S3/EBS, Azure, GCP



Platform as a Service (PaaS)

A managed operating environment with utilities to streamline "Cloud-native" application development, for example: facilities for data management or computational offload.

e.g. AWS RDS/Redshift/Lambda/Lex, Azure Functions/Cosmos/Media, GCP AppEngine



Software as a Service (SaaS)

A fully-managed application provided directly to end users, typically by subscription.

e.g. MS Office365, Salesforce, Workday, WebEx, GoToMeeting

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+ Lenovo DCG Cloud Strategy



Partner with Industry Software Leaders

- Largest Range of Customer Choice
- Solutions for Any Cloud Operating Model

Support Any Customer Path to Cloud

with Flexible Products and Services

- Help any customer
- No matter what the path
- No matter where they are in the journey



Leverage Industry-leading ThinkSystem

- Server and Storage
- World Record Performance Benchmarks
- #1 in Server Reliability



Superior Customer Experience

for all Cloud Products and Solutions

- Understanding Requirements
- Deployment and Support
- Life Cycle Management



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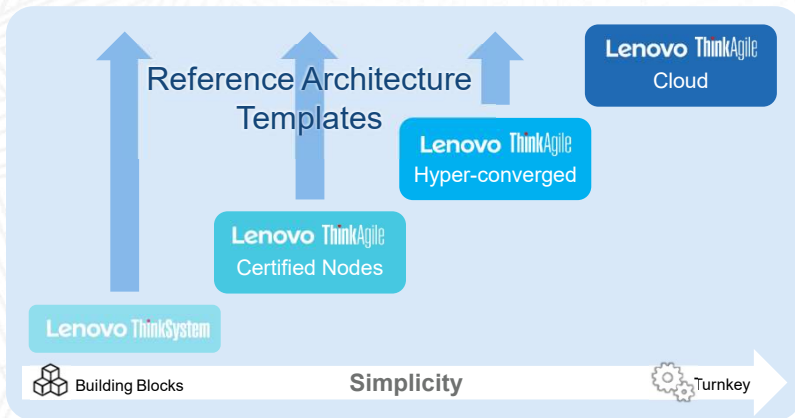


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+ Lenovo DCG: Delivering Fast Pathways to Cloud

Lenovo Products

Lenovo Professional Services



- Migration Assessment
- Design Workshop
- Cluster Deployment
- Workload Migration
- Health Check
- Managed Services



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What is an Intel Select Solution from Lenovo?

Developed from collaboration with industry providers in solutions, data centers, and services, Intel® Select Solutions (ISS) take the guesswork out of compatibility with software and hardware stacks tailored to specific workloads.

In today's complex data center, hardware and software infrastructure is not "one size fits all". Intel Select Solutions eliminates guesswork with rigorously benchmark tested and verified solutions optimized for real-world performance. These solutions accelerate infrastructure deployment on Intel® Xeon® processors for today's critical workloads in advanced analytics, hybrid cloud, storage, and networking.

Lenovo has tested and reported performance of our recommended ISS configurations derived from a minimum specification by workload to Intel.



[Link to Deployment Ready Intel Select Solutions - Lenovo Data Center Solutions Configurator](#)

The Challenge

You need to quote a ready-to-use server solution that fits your customers workload needs.

The Solution

Use new Solution IDs in Lenovo's Data Center Solution Configurator. Choose an optimized, ready-to-deploy Intel Select Solution from the drop-down menu.

1. Click 2. Export Config 3. Price to Win!

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Intel® Select Solutions Portfolio



Analytics	AI	Hybrid Cloud	Network Transformation	HPC
<ul style="list-style-type: none"> MICROSOFT SQL SERVER WINDOWS SERVER MICROSOFT SQL SERVER LINUX SAP HANA 	<ul style="list-style-type: none"> BIGDL ON APACHE SPARK AI INFERENCEING 	<ul style="list-style-type: none"> MICROSOFT AZURE STACK RED HAT OPENSIFT CONTAINER PLATFORM VMWARE VSAN MICROSOFT AZURE STACK HCI HUAWEI FUSIONSTORAGE BLOCKCHAIN: HYPERLEDGER FABRIC HARDENED SECURITY WITH LOCKHEED MARTIN GOOGLE CLOUD'S ANTHOS NUTANIX HCI VMWARE HORIZON VDI ON VSAN 	<ul style="list-style-type: none"> UNIVERSAL CUSTOMER PREMISES EQUIPMENT NFVI: RED HAT NFVI: MEDIA ANALYTICS NFVI: FORWARDING PLATFORM NFVI: FUSIONSHERE VISUAL CLOUD DELIVERY NETWORK NFVI: UBUNTU 	<ul style="list-style-type: none"> SIMULATION & MODELING PROFESSIONAL VISUALIZATION GENOMICS ANALYTICS* HPC & AI CONVERGED CLUSTERS

● Optane PMem
● Optane SSD

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LENOVO SOLUTION AVAILABLE
 LENOVO SOLUTION INTENT ANNOUNCED

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Intel Select Solution; New Solution IDs

- 1 **Visit: DCSC.Lenovo.com**
Data Center Solution Configurator
- 2 **Hover your mouse over "Deployment Ready Solutions"**
- 3 **Choose workload**
- 4 **Order Pre-Configured Or Customize the Configuration**

Servers
Storage
Networking
ON DEMAND Solutions
Software Defined Infrastructure
Deployment Ready Solutions
Software
Services

Client Virtualization
Databases
Intel Select
Promotions
Software Defined Storage

Intel Select

Analytics
[Analytics Solutions](#)

Database
[Database Solutions](#)

Hybrid Cloud
[Hybrid Cloud Solutions](#)

CRN Number: SID0000200

Intel Select Solution for vSAN Ready Node - Plus
Optimized with Intel® Optane™ Technology
[Click here to view the Solution Brief](#)

Intel Select Solutions from Lenovo eliminates guesswork with rigorously benchmark tested and verified solutions that are optimized for real-world processors for today's critical workloads in advanced analytics, hybrid cloud, storage, and networking.

The Intel Select Solution for vSAN Ready Node Plus provides a ThinkAgile VX pre-configured, validated design that allows you to confidently converge Ready Nodes you can rapidly deploy pre-engineered, tested and scalable storage to meet growing performance and capacity needs. The combination storage solution. The Plus configuration includes 512GB of DRAM and is optimized with 2TB of Optane Persistent Memory and ThinkSystem U.2 Intel

[Click here to view the Bill of Materials](#)

Export
Customize

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+ ThinkAgile Portfolio

 ThinkAgile HX Series	 ThinkAgile VX Series	 ThinkAgile SX for Microsoft Azure Stack ThinkAgile MX	ThinkAgile CP Series
<p>Nutanix-based HCI with multi-hypervisor support Market leader for HCI</p> <ul style="list-style-type: none"> ▪ Positioned for clients who have a mixed hypervisor environment 	<p>vSAN-based HCI tightly integrated with vSphere and vCenter vSAN fastest growing HCI Vendor</p> <ul style="list-style-type: none"> ▪ Positioned for clients who have preference for vSphere hypervisor and vCenter management tools 	<p>Simplified, consistent hybrid cloud with on premise Azure Stack cloud services Extension of Azure to On-Premise</p> <ul style="list-style-type: none"> ▪ Positioned for clients who have implemented Azure and want to extend to On Prem Hybrid Cloud ▪ MX for clients who look for WSSD certified S2D as TurnKey solution 	<p>All-in-one Private Composable Cloud providing a public cloud user experience behind the client's firewall</p> <p>Positioned for clients who require cost-effective, modular, composable private cloud environment</p>

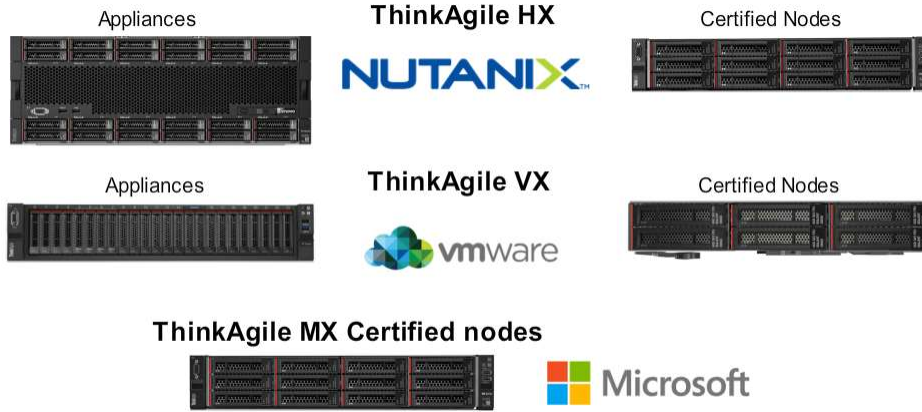
Software Defined Storage

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+ ThinkAgile Hyperconverged

- Adds Simplicity
- Reduces Complexity and need for External Storage / SAN
- Allows customers to acquire products that can be easily and quickly deployed



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+ How do you Build a Hyperconverged Server

	Build Your Own	Certified Node	Appliance	CUSTOMER BENEFITS
Firmware Controlled	✘	✓	✓	Ensure customer firmware configuration is valid
Certified Components	Not enforced	✓	✓	Ensures customer hardware configuration is valid
SW Pre-Installed	Optional	✓	✓	Ensures customer HW/Firmware/SW stack is optimized, validated and certified
SW Licenses	Optional	Optional	✓	All inclusive solution
ThinkAgile Support	Optional (Premier only)	Optional	✓	Single point of contact with a support team that understands the solution
PS Deployment	Custom SOW	Optional	✓	Deliver an operational solution at a fixed price based on known configurations

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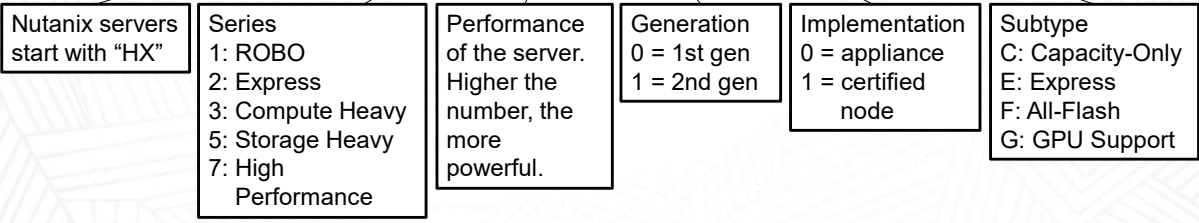
+ Lenovo ThinkAgile HX – Certified Nodes & Appliance

- **Simplify IT infrastructure** – significantly reduces time and resources to maintain
- **Greater reliability** – Powered by the most reliable servers² in the industry
- Hypervisors Preloaded:
Nutanix Acropolis Hypervisor, optional VMware ESXi
- Hypervisors Supported:
Nutanix Acropolis Hypervisor; VMware ESXi, Microsoft Hyper-V 2016
- Heterogeneous and Storage-only nodes in Cluster

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+ Naming Convention – Nutanix

HX5520-C



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+ Lenovo ThinkAgile HX

Solutions	Remote Office / Branch Office	Small Medium Business	Compute Heavy/ General Compute	Storage Heavy	Performance Intensive	
					High Performance	Mission Critical & SAP HANA
HX1320	■					
HX2320/ HX2321		■				
HX3320			■			
HX3520-G			■			
HX3720			■			
HX5520				■		
HX7520/ HX7521					■	
HX7820/ HX7821						■

The ThinkAgile HX series models are split into five categories:

1. Remote office / branch office
2. Small medium business
3. Compute heavy (general compute)
4. Storage heavy
5. Performance intensive
 - High performance
 - Mission critical and SAP HANA).

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+ ThinkAgile VX Appliance

ThinkAgile VX Appliance provides a turn-key solution for customers who want a vSAN Environment. **It includes vSAN Software Licenses and Deployment Services.**

Key Points:

- **ESXi Pre-loaded** at Factory
- Hardware firmware/drivers and software updates tested for interoperability and released in unison
- **Includes ThinkAgile Advantage support** including software
- Deployment Service Required
- VMware Licensing from Lenovo
- VX Installer Support



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+ ThinkAgile VX Appliance

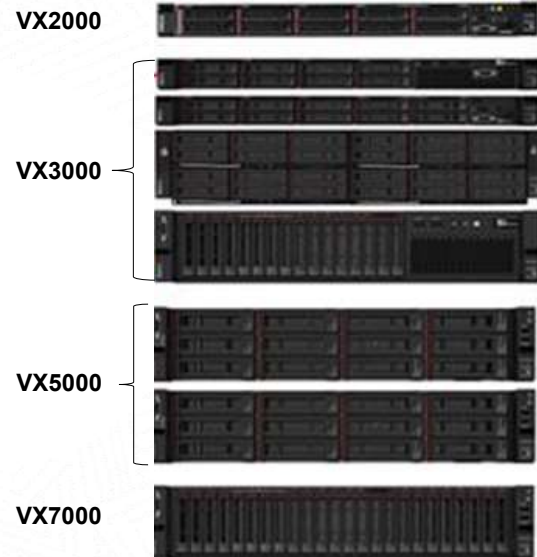
- VX2000 – Xpress
- VX3000 – Compute Heavy
- VX5000 – Storage Heavy
- VX7000 – High Performance

xClarity Integration

- vCenter
- vRealize Orchestrator
- vRealize Automation
- vRealize Log Insight



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+ ThinkAgile MX Certified Node

ThinkAgile MX Certified Node is based on SR650 Server

Windows Storage Spaces Direct – easily and more efficiently run S2D

Key Points:

- Hardware firmware/drivers and software updates tested for interoperability and released in unison
- Lenovo ThinkAgile Advantage Support

Key Benefits:

- Simplicity - Lenovo XClarity extension integrates with Windows Admin Center from Microsoft
- Flexibility – Wide range of processor, memory, and storage options
- Faster time to value – Lenovo designed, tested, and validated ThinkAgile MX Series
- Higher Performance Storage
 - Using multiple tiers of storage (SSDs, NVMe)
 - **Further acceleration is achieved by using Remote Direct Memory Access (RDMA)**

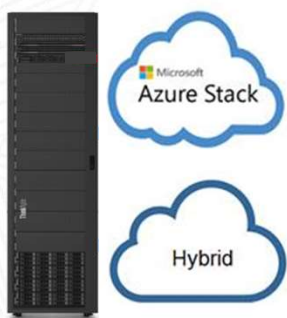


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+ ThinkAgile SX for Microsoft Azure Stack



Simplified, Consistent Hybrid Cloud

- Rack-scale, pre-integrated turnkey solution ready to deploy in hours
- On-premises Azure cloud services
- Ability for Hybrid Cloud based on Lenovo Servers and Networking
- Enriched lifecycle management


Increased IT Agility

- Ships up to 2x faster than alternative solutions
- No disruption to tenant availability or experience
- Professional installation


Transformative Support

- Lenovo has co-innovated with Microsoft for more than 20 years
- Lenovo was 1st to market with Azure Stack demos and is working with over 40 early Azure Stack customers
- Reduce support time with single point of contact

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	Lenovo ThinkAgile SXM4400, SXM6400									
	Product definition	<ul style="list-style-type: none"> • 25U or 42U Racks • 4-12 Nodes <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Per Node:</td> <td style="width: 50%;">System Maximum:</td> </tr> <tr> <td>• 28 -44 cores</td> <td>528 cores</td> </tr> <tr> <td>• 256GB -768GB mem.</td> <td>9TB</td> </tr> <tr> <td>• 40TB or 60TB storage</td> <td>720TB Raw</td> </tr> </table>	Per Node:	System Maximum:	• 28 -44 cores	528 cores	• 256GB -768GB mem.	9TB	• 40TB or 60TB storage	720TB Raw
	Per Node:	System Maximum:								
	• 28 -44 cores	528 cores								
	• 256GB -768GB mem.	9TB								
	• 40TB or 60TB storage	720TB Raw								
Target environment	<ul style="list-style-type: none"> • Medium/Large Enterprises • Large SI/MSP • Smaller MSPs • End user customers • Microsoft collaborative applications • Test/Development - DevOps 									
Value proposition	<ul style="list-style-type: none"> • Easy and fast ordering (3 Weeks, order to ship) • Fully integrated and validated solution • Rapid, services led, deployment • Single Point of Support • Simplified Lifecycle Management • On-Premises Hybrid Cloud • Lower TCO vs traditional infrastructure 									
Performance	<ul style="list-style-type: none"> • Up to 800 VMs • 2 Million IOPS 									
Availability	<ul style="list-style-type: none"> • Lenovo will have product available at Microsoft GA 									

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+ Lenovo ThinkAgile CP



Pre-integrated, turnkey experience

Lenovo services & support

Simple to manage, no technology skills required

Only need an IT generalist to operate

ThinkAgile CP:

Delivers the benefits of Public Cloud, safely behind customer's firewalls, with better cost containment



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+ Lenovo Services - ThinkAgile Advantage

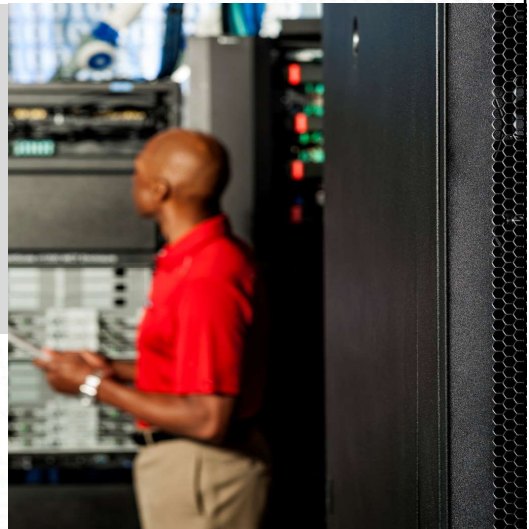
Expert Deployment and Support to Boost IT Effectiveness

Designed to deliver a first-class customer experience

Deployment by skilled technicians

Single point of contact for support

Onsite hardware repair



ThinkAgile
Next Generation IT

for software-defined infrastructure



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+ New Options Make it Easy to Match to Business Needs

Select the service level that fits your needs, your workloads, and your budget. All our Services include onsite repair for even the most simple to replace parts, and our Essential and Advanced offerings protect your data at no additional cost.

Fully customizable by adding optional services like software support and installation, Lenovo's Services portfolio is designed to deliver simplicity and value to meet the needs of any business.

<p>Foundation</p> <p>Supplement your standard hardware support with Foundation Services.</p> <p>You'll get onsite, next-business-day response during normal business hours for service calls, including onsite installation of all replacement parts.</p> <p>FOR NON MISSION CRITICAL SYSTEMS</p>	<p>Essential</p> <p>ENHANCE UPTIME FOR CORE BUSINESS WORKLOADS AND SAFEGUARD FOR SENSITIVE DATA</p> <p>You'll benefit from 4-hour onsite technician dispatch response times, 24 hours per day, 7 days per week, along with a technician to replace all parts onsite at your facilities.</p> <p>YourDrive YourData is included to provide you the ability to keep your failed drives and memory modules and dispose of that data in a secure way.</p>	<p>Advanced</p> <p>MAXIMIZE UPTIME OF CRITICAL APPLICATIONS AND WORKLOADS.</p> <p>You can add a 6 Hour Committed Service Level, returning your machine to operational performance. In case of a hardware failure a technician will arrive at your facilities to replace your failed component</p> <p>YourDrive YourData is included to provide you the ability to keep your failed drives and memory modules and dispose of that data in a secure way.</p> <p>Recommended additions include: extend Advanced services up to 5 years, add Basic Hardware Installation and Enterprise Server Software Support.</p>
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+ Simplified Portfolio Services

Base Warranty	9x5 Next Business Day Onsite (CRU/FRU Mix) (CRU Parts Shipped, FRU Onsite Tech Dispatch) 1 Year or 3 Years Coverage Depending on Machine Type		
Upgrades + Extensions	Foundation	Essential	Advanced
Recommended Add-On Services	<p>Upgrade your base warranty and extend support of your systems.</p> <ul style="list-style-type: none"> 9x5 Next Business Day Response CRU/FRU* Onsite Tech. Dispatch <ul style="list-style-type: none"> Extend coverage up to 5 years 1 and 2 year Post Warranty Options 	<p>Best choice for systems where maximum uptime is essential to the business.</p> <ul style="list-style-type: none"> 24x7 4 Hour Response CRU/FRU* Onsite Tech. Dispatch Includes YourDrive YourData <ul style="list-style-type: none"> Extend coverage up to 5 years 1 and 2 year Post Warranty Options 	<p>Robust coverage for systems supporting workloads that are mission critical to the business.</p> <ul style="list-style-type: none"> 24x7 6Hr Committed Repair 2Hr response time + 4Hr fix time CRU/FRU* Onsite Tech. Dispatch Includes YourDrive YourData <ul style="list-style-type: none"> Extend coverage up to 5 years 1 and 2 year Post Warranty Options
Recommended Add-On Services	<ul style="list-style-type: none"> YourDrive YourData Enterprise Software Support (ESS) Hardware Installation 	<ul style="list-style-type: none"> Upgrade to 24Hr Committed Repair Enterprise Software Support (ESS) Hardware Installation 	<ul style="list-style-type: none"> Enterprise Software Support (ESS) Hardware Installation

Remember YourDrive YourData includes HDDs, SSDs, and RAM modules * Onsite Engineer to fit all Parts (CRU and FRU)

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ThinkAgile Q & A

Remember to complete the Survey

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thanks.

Different is better

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