







Windows
Server
2016

Certified

Highlights:

-  **Breakthrough Performance** – Utilizes leverages Intel Optane technology and NVMe to deliver breakthrough performance and incredible responsiveness.
-  **All-Flash NVMe SSDs** – Achieves 3M IOPS performance
-  **Dramatically Reduced Disk Latency** – Intel 3D XPoint technologies provides reduced latency over NAND flash memory.
-  **Supports More VMs** – Support over 40 Hyper-V VMs per node, with up to 16 nodes per cluster.
-  **Highly Scalable** – Delivers compute, networking and storage resources with near-linear scalability.
-  **Easy to Manage** – Utilizes DataON's exclusive MUST software for infrastructure visibility, monitoring and management.

DataON TracSystem Family of Hyper-Converged Infrastructure

DataON TracSystem hyper-converged infrastructure (HCI) are fully integrated and turnkey solutions built to optimize the full stack of Microsoft Storage Spaces Direct. They are comprised of DataON S2D Server Ready Nodes that are field proven with over 600 customers and over 100PB deployed.

TracSystem Lightning Series – Optimized for the Ultimate Performance with Windows Server 2016 Storage Spaces Direct

The TracSystem Lightning series is the first validated Intel Select Solution with Windows Server 2016 Storage Spaces Direct. It leverages the Intel® Xeon® Scalable Processors Family, Intel® Optane™ Technology and NVMe Express (NVMe™) to deliver breakthrough performance and incredible responsiveness, with greater VM density.

- Breakthrough performance and dramatically reduced disk latency with over 3M IOPS throughput for write-intensive workloads by leveraging Intel® Optane™ SSDs that are NVMe-based for the fast cache tier for Window Server 2016 Storage Spaces Direct.
- Greater VM density per cluster with Intel® Xeon® Scalable Processors, delivering up to 28 cores per socket, 12 DIMMS per CPU memory density, and 224 physical cores for a 4-node Storage Space HCI deployment.
- Highest networking efficiency and throughput with SMB3 RDMA fabric delivering 2x throughput compared to TCP/IP, less than 1 µsec latency from VM-to-VM communication, and fewer CPU cycles per I/O with better core utilization.

Every TracSystem HCI is pre-configured with DataON MUST (Management Utility Software Tool) infrastructure visibility, monitoring and management software, which provides SAN-like storage monitoring features and system alerts based on Windows Health Service faults. The inclusion of MUST is what completes a Windows Server 2016 solution as a viable SAN replacement.

- **Preconfigured 4-node HCI Clusters** – Provides expanded capacity with scalable and operational flexibility, with up to 16 nodes.
- **Industry-leading application performance** – Provides over 3M IOPS performance (running VM Fleet) using the latest all-flash Intel Optane SSD DC P4800X cache and NVMe SSD technology to scale IOPS intensive workloads.
- **Hyper-V Virtualization Hosting** – Supports more than 40 Hyper-V virtual machines per node, with up to 16 nodes per cluster.
- **Storage and Networking with SMB3 over RDMA** – Increases CPU efficiency while delivering the lowest latency and 2x throughput compared to TCP/IP.
- **Hyper-Converged Scalability** – Delivers incremental compute, networking, and storage resources while providing near-linear scalability. Each HCI cluster can also be expanded via 12GB/s SAS JBODs.
- **Automated Out-of-the-box Deployment** – Accelerates time to deployment for Windows Server 2016 Storage Spaces Direct and Storage Replica environments.
- **Integrated Data Protection and Guarded Fabric** – Supports Windows Server 2016 with Shielded VM and TPM 2.0 trusted attestation for security and business continuity.



Performance Tuned

Windows Server based HCI that counts IOPS in millions



Linear Scalability on Demand

Compute, networking and storage delivers maximum responsiveness and efficiency; supports up to 16 nodes



Easy to Deploy and Manage

DataON MUST tool provides visibility, monitoring and management for Windows Server 2016 deployments

Model	5110L	5224L	5240L
Nodes Per Cluster	4 to 16 Nodes		
Platform	Intel® Xeon® Scalable Processor with Intel C620 Chipsets		
Form Factor	1U 1-Node rack server with 10 NVMe U.2 2.5" drives	2U 1-Node rack server with 24 NVMe U.2 2.5" drives	2U 4-Node rack server with 24 NVMe U.2 2.5" drives
CPU Cores	16 to 44 Cores		
Memory	256GB to 1.5TB per node		
Performance Tier	Intel Optane™		
Capacity Tier	All NVMe SSDs		
Networking	2x 10GbE RJ45; 2x 10GbE SFP+ or 2x 40/100GbE QSFP28		
Max. TDP	145W	140W	140W
Power Supplies	Dual 724W	Dual 1300W	Dual 1600W
Dimensions	1.69" H x 16.92" W x 29.53" D	3.44" H x 16.93" W x 27.95" D	3.42" H x 17.24" W x 28.86" D

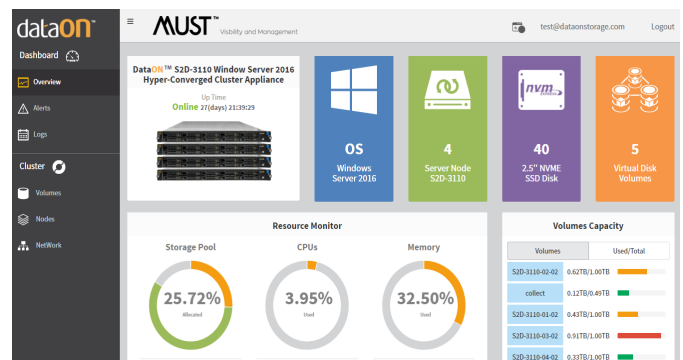
DataON MUST—Infrastructure Visibility and Management for Windows Server 2016

The DataON TracServer solutions are integrated with DataON's exclusive MUST visibility and management tool to provide SAN-like storage monitoring features for customers deploying Windows Server software-defined solutions.

Leveraging the Windows Health Service API, MUST provides visibility to system-level information and storage cluster / volume / node-level utilization. It also gives you a dashboard-level view of your cluster, with operational visibility of system analytics, infrastructure health management, storage systems metrics, and event logging insights.

With system alerts based on Windows Health Service faults and SAN-like call home services, MUST notifies system administrators of hardware failures, configuration issues and resources saturation.

DataON is the first to market with a management tool that provides monitoring for Windows Storage deployments.



Features:

- ✓ **Dashboard level metrics** through a single pane of glass.
- ✓ **System alerts & automated e-mail notifications** for hardware failures, configuration issues and resource saturation.
- ✓ **Mobile friendly user interface** allows you to monitor your Windows Storage deployments when you're out of the office.
- ✓ **Pre-configured with DataON hyper-converged solutions** at no extra charge.



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About DataON

DataON is the industry-leading provider of hyper-converged cluster appliances (HCCA) and storage systems optimized for Microsoft Windows Server environments. Our solutions are built with the single purpose of rapidly and seamlessly deploying Microsoft applications, virtualization, data protection, and hybrid cloud services. Our company is exclusively focused on customers who have made the "Microsoft choice" and we provide the ultimate platform for the Microsoft software-defined data center (SDDC). DataON is a division of Area Electronics Systems, Inc.