Solution Brief

DataON Business Continuity Solutions with Veeam Backup and Replication

Scale-out storage and hardware RAID solutions for performance and resiliency

VEEAM READY Repository

- Backup & Replication
- Cloud Mobility
- Monitoring & Analytics
- Intelligent Recovery
- Copy Data Management
- Orchestration & Automation

Introduction

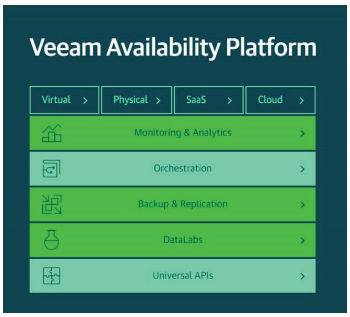
The smallest amount of downtime can grind a business to a halt. This is where having a robust, easy to manage, comprehensive data protection system is essential for long-term business success. It can help ensure 24/7 data access, improve response times, open up new revenue streams, and deliver business continuity to effectively thwart hardware failures, localized or widespread service outages, and natural disasters.

DataON and Veeam offer business continuity with scale-out storage and hardware RAID

DataON offers multiple choices to maintain business continuity with on-premises backups and disaster recovery (DR). Organizations can choose from scale-out storage solutions for Microsoft Azure Stack HCI or on-premises RAID hardware, both managed with the Veeam Availability Platform. DataON works with organizations, ensuring they get the right solution for their business with turnkey implementation, and provides support customers need to get up and running, and stay running.

Veeam Availability Platform – a single management availability solution for virtual, physical and cloud-based workloads

At the heart of DataON business continuity solutions is the Veeam Availability Platform. The Veeam solution meets the needs of organizations today and for the future with a platform for all OPEX models and all workloads. It provides the flexibility to use Microsoft Azure Cloud services and reduces administrative overhead and labor costs of all workloads. The Veeam Availability Platform reduces the need for separate monitoring tools, provides disaster recovery and orchestration solutions, and offers General Data Protection Regulation (GDPR) compliance capabilities and data security with Veeam DataLabs™ and Veeam ONE™. Organizations can also improve operations by testing upgrades and security vulnerability and executing DevOps/DevTest and mining data for business insights.



DataON scale-out storage solutions for on-premises backups with Azure Stack HCI and Veeam

For organizations storing bulk-storage repositories and video surveillance, or performing on-premises backups, DataON scale-out storage solutions for Azure Stack HCI offer an ideal balance of lower latency and high capacity infrastructure that is superior to a SAN or NAS. Configured with high-performance NVMe cache and SSDs and/or HDDs, the solution can scale up to 16 nodes with up to 4PBs per cluster. Organizations can set it up for backup and DR on-premises or in a secondary offsite secondary data center or co-location (COLO) and implement Azure Cloud services.

With Azure Stack HCI scale-out storage solutions, the Veeam Availability Platform with Veeam Backup and Replication provides cutting-edge ReFS integration for faster backups, improves reliability and performance for backup and restore, and reduces storage requirements. With three-way mirror fault tolerance, hyper-converged infrastructure, Azure services, and Veeam management, a DataON scale-out solution for Azure Stack HCI can provide a highly scalable infrastructure needed organizations need for effective business continuity.

DataON scale-out storage solution features:

- Highly scalable up to sixteen nodes with four hundred drives for up to 4PB of storage per cluster
- Three-way mirror fault tolerance and mirror-accelerated parity with Azure Stack HCI
- Industry-standard hardware for lower TCO
- Reduced file size 30 to 90% with data deduplication
- Veeam Backup and Replication provides ReFS integration for faster, more reliable backups

DataON on-premises RAID storage solution features:

- High performance 12Gb/s SAS storage interface enables backup applications faster access to data
- Enterprise-class data protection and security backup solution at lower total cost of ownership (TCO) compared to RAID 5, RAID 6 and CacheVault flash cache protection module
- Veeam integration reduces backup and recovery times by 80%

Profile	Scale-out storage for Azure Stack HCI		
	Performance & capacity-optimized	Performance & Density	Performance & expansion-optimized
Model	S2D-5212	S2D-5230	S2D-5468
Drive Bay Config	2x 2.5" NVMe U.2 + 10x 3.5" SAS/SATA	6x 2.5" NVMe + 24x 3.5" SAS/SATA	60x 3.5" + 8x 2.5" SAS/SATA
Processor	2nd Generation Intel® Xeon® Scalable processor		
Networking	2x 25GbE SFP28 or 2x 40/100GbE QSFP28 dual-port RDMA adapters		

DataON on-premises RAID storage solutions with Veeam

DataON RAID solutions, powered by Broadcom® MegaRAID, offer a smart way to protect data and applications in an organization's growing data center environment. It also provides organization's peace of mind that comes with knowing they can get back to business quickly. DataON RAID solutions, utilizing Veeam Backup & Replication Suite, help safeguard the physical and virtual servers that power your business. Utilizing industry-standard components, DataON RAID solutions also help you reduce IT complexity and lower the cost of ownership. The DataON Data Center Storage (DCS) backup platform provides deployment versatility and scalability with the flexibility to support software-defined storage and RAID-based storage profiles. Tailored to withstand storage capacity demands in a hyperscale data center, the DCS family provides exceptionally high storage density while leveraging high-efficiency power to maximize performance-per-watt savings to reduce TCO.

Profile	Hardware RAID storage		
	Performance & capacity-optimized	Performance & Density	Performance & expansion-optimized
Model	DCS-5212	DCS-5230	DCS-5468
Drive Bay Config	12x 3.5" 12Gb/s SAS	6x 2.5" NVMe + 24x 3.5" SAS/SATA	60x 3.5" + 8x 2.5" SAS/SATA
Processor	2nd Generation Intel® Xeon® Scalable processor		
Networking	2x 25GbE SFP28 or 2x 40/100GbE QSFP28 dual-port RDMA adapters		

DataON is a Veeam Ready and validated solution for Azure Stack HCI

As the leader in availability across multi-cloud environments, Veeam software is uniquely positioned to help organizations along their journey to intelligent data management. Veeam protects workloads no matter where they reside – on-premises or in the public cloud – allowing enterprises of all sizes to unlock more value for their business.

DataON is part of the Veeam Ready program and delivers a solution qualification and testing process to meet Veeam standards. DataON has achieved the Veeam Ready status, which designates the highest level of qualification and testing for storage products.

All DataON solutions for Azure Stack HCI are validated by Microsoft to earn their highest certification. Azure Stack HCI hybrid-cloud solutions from DataON deliver the highest level of performance, manageability, and security delivered as a fully deployed experience.

About DataON

DataON is a hybrid-cloud computing company focused on delivering Microsoft Azure Stack HCI, on-premise storage system, intelligent edge appliances, and cloud-based Microsoft Azure Services. Our company is helping enterprises and customers who have made the "Microsoft choice" to modernize their IT with Microsoft applications, virtualizations, and data protection through a complete and turnkey experience. With over 650 HCI clusters and 150PB of storage deployed, DataON enterprise-level solutions are designed to provide the highest level of performance, manageability, and security offered. DataON is a Microsoft Gold Partner, Microsoft Cloud Service Provider (CSP), and an Intel Platinum Partner.

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