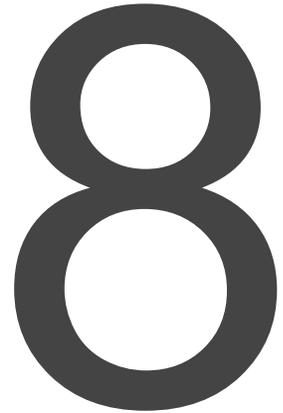# TOP REASONS TO CHOOSE DELL EMC ISILON SCALE-OUT NAS SOLUTIONS

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1 | Simplicity

Dell EMC Isilon powered by the OneFS operating system is a powerful yet simple scale-out NAS solution for organizations that want to invest in managing their data, not their storage. With a single volume, single file system architecture, OneFS powered storage systems are simple to install, manage, and scale to virtually any size. You don't need to add storage administrators as your storage environment grows. One person can now manage petabytes of data, which minimizes operating expenses and allows staff to focus on managing data—not storage.

2 | Scalability

OneFS powered solutions enable you to scale performance and capacity based on the specific requirements of your business. With up to 252 nodes in a cluster, you can scale cluster capacity from 10s of terabytes to 10s of petabytes of storage and scale performance up to 15.8 million file operations per second with up to 945 gigabytes per second (GB/s) of aggregate throughput—non-disruptively. And with CloudPools software, you can seamlessly grow to cloud-scale capacity with seamless integration with choice of private and public cloud service providers.

3 | Efficiency

Isilon solutions deliver up to 80 percent storage utilization. SmartDedupe data deduplication software enables you to further reduce storage requirements by up to 30 percent. The F810 all-flash hardware platform delivers high-speed in-line data compression and deduplication to improve storage utilization by up to 3:1 depending on the dataset. With a choice of all-flash, hybrid and archive platforms and the policy-based automated storage tiering option, you can optimize storage resources by ensuring that applications are supported with the right level of performance.

4 | Availability and data protection

OneFS powered solutions are highly resilient and can withstand the loss of up to four nodes or drive failures simultaneously and maintain complete availability of your data. Non-disruptive upgrades and operations minimize the need to schedule downtime for your cluster. For fast and efficient data backup, you can schedule snapshots as frequently as needed to meet your specific recovery-point objectives. For disaster recovery protection, SyncIQ software provides efficient data replication to remote sites with seamless push-button failover and failback.

5 | Security and compliance

To help you address your security and compliance needs, there are a broad range of security options including SmartLock software for write once, read many (WORM) protection to prevent accidental or malicious alteration or deletion of data; file system auditing to track which users are accessing specific files; and data at rest encryption (DARE) with self-encrypting drives (SEDs) to protect against drive theft or loss. There are role-based access control (RBAC) capabilities to allow you to create a strict separation between storage administration and users and their file system access. You can also create access zones to provide secure, isolated storage pools for specific departments within your organization.
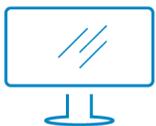
6 | Flexibility

OneFS powered solutions include integrated support for industry-standard protocols, including NFS, SMB, HTTP, FTP and native Hadoop Distributed File System (HDFS) for data analytics initiatives. These capabilities allow you to provide an efficient and flexible shared storage infrastructure to consolidate and support a wide range of applications and workloads. The native HDFS support allows you to gain new insight and unlock new opportunities for your business. This means you can increase efficiency, maximize your data capital and get more value from your enterprise data assets.

7 | Expanded data lake

You can consolidate and provide a single pool of storage for all your unstructured data. In addition to flexible, multi-protocol access capabilities, enterprise grade data protection, data management, security, and performance management make it easy for administrators to manage all their unstructured data. IsilonSD Edge software defined storage and CloudPools software enables you to extend your data lake from enterprise edge locations including remote and branch offices to your core datacenter and to the cloud.

8 | Consumption choice

You always have consumption choice with a solution that is either appliance based, software defined storage, converged infrastructure or cloud-enabled. This enables you to flexibly choose the model that provides the maximum business value while still meeting your technical demands.

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