

DELL EMC ISILON SCALE-OUT NAS PRODUCT FAMILY

Unstructured data storage made simple

ESSENTIALS

- Simple storage management designed for ease of use
- Massive scalability of capacity and performance
- Unmatched efficiency to reduce costs
- Choice of All-Flash, Hybrid or Archive nodes
- Automated tiered storage to optimize resources
- Multiprotocol support to maximize operational flexibility
- Resilient data protection for a highly available environment
- Robust security and compliance options

IT'S NOT JUST DATA, IT'S YOUR BUSINESS

Dell EMC Isilon scale-out storage solutions are designed for enterprises that want to manage their data, not their storage. Our storage systems are powerful yet simple

to install, manage, and scale to virtually any size. Isilon storage includes a choice of all-flash, hybrid or archive nodes to meet the most demanding needs. And, unlike traditional enterprise storage, Isilon solutions stay simple no matter how much storage capacity is added, how much performance is required, or how business needs change in the future. We're challenging enterprises to think differently about their storage, because when they do, they'll recognize there's a better, simpler way—with Isilon.

EXPAND IT...SIMPLY

With Isilon scale-out network-attached storage (NAS), you can have massive room for growth—with up to 68 petabytes (PB) of capacity per cluster with a choice of all-flash, hybrid, or archive storage. Go ahead. Take on more projects, perform more in-depth research, and serve up more data. You can scale both capacity and performance in about a minute to meet your specific business needs—all without any additional IT burden.

ACCELERATE IT...SIMPLY

Isilon storage provides you with the tools to dramatically increase workflow productivity and maximize the value of your enterprise applications and Big Data assets—allowing you to accelerate your business through faster time to money and new revenue opportunities.

PROTECT IT...SIMPLY

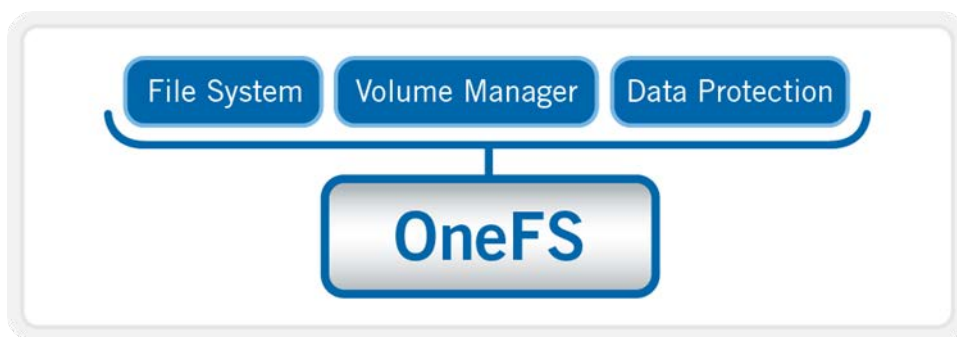
You don't entrust your most valuable assets to just anyone. Isilon storage solutions provide the highest levels of reliability, availability, and serviceability in the industry. For fast and efficient data backup and recovery, you can schedule snapshots as frequently as needed to meet your specific recovery-point objectives. For reliable disaster recovery protection, our storage solutions provide extremely fast data replication, along with push-button failover and failback simplicity, to further increase the availability of your data for mission-critical applications.

SECURE IT...SIMPLY

Meeting compliance and governance requirements is essential for most organizations today. To address these needs, Isilon provides robust security options, including file system auditing and Data at Rest Encryption (DARE) with self-encrypting drives (SEDs). We offer write once, read many (WORM) data protection to prevent accidental or malicious alteration or deletion and help you meet regulatory requirements—including the stringent SEC 17a-4 rule. With Isilon, you can also leverage role-based access control (RBAC) options and, if needed, create isolated storage pools for specific departments within your organization. Isilon also offers Security and Technical Implementation Guide (STIG) hardening, CAC/PIV Smartcard authentication, and FIPS OpenSSL support for Federal government agencies and financial services businesses.

Isilon OneFS Operating System Powers Scale-Out Storage Solutions

The Isilon OneFS operating system provides the intelligence behind all Isilon scale-out storage solutions. Through the fusion of OneFS, state-of-the-art engineering, and industry-standard enterprise hardware, Isilon provides a highly scalable, high-performance modular storage architecture that can grow with your business. OneFS can help you accelerate processes and workflows, while scaling easily to handle massive growth and providing the highest levels of data protection available. This is all provided in a storage solution designed for unmatched ease of use.



Isilon scale-out storage solutions, powered by the OneFS operating system, provide users with a broad range of options to meet their specific storage needs.

SCALE-OUT DATA LAKE

As the volume and sources of data have expanded dramatically, traditional techniques to store and analyze information have proven to be too expensive and too slow to handle the massive data volumes modern enterprises produce and manage. With Isilon, you can gain a highly flexible and efficient storage infrastructure that expands your data lake from the edge to the core to the cloud. You can consolidate data, simplify management and eliminate inefficient storage silos while supporting a wide range of traditional and next-generation workloads and applications that previously used a number of different types of storage.



Unmatched Agility and performance

Change is inevitable. That's why every Isilon system is built to rapidly and simply adapt. OneFS allows a storage system to grow symmetrically or independently as more space or processing power is required. This allows you to scale your storage easily as your business needs dictate. With Isilon, you can scale performance from 250,000 file operations per second (IOPS) with a single chassis up to 9 million IOPS with a single cluster. You can also scale throughput from 15 gigabytes per second (GB/s) with a single chassis to 540 GB/s of aggregate read throughput with a single Isilon cluster.

Efficiency and Cost-Savings

Orchestrated by OneFS, all components in an Isilon cluster work in concert to create a unified pool of highly efficient storage—with a storage utilization rate of over 80 percent. **With Isilon SmartDedupe data deduplication, you can further reduce your data storage requirements by up to 35 percent in environments with redundant data across multiple sources.** The unmatched efficiency of Isilon storage systems means that less physical storage and space are required to house the same amount of data—reducing both initial capital outlay and ongoing costs. And, with the Isilon AutoBalance function, you can quickly and easily add nodes without downtime, manual data migration, or application logic reconfiguration, saving precious IT resources. And because Isilon storage is so easy to manage, it requires fewer IT resources for storage administration than traditional storage systems, which further reduces overall operating costs.

Simple interoperability

With Isilon, you can streamline your storage infrastructure by consolidating large-scale file and unstructured data assets, eliminating silos of storage. Isilon scale-out NAS includes integrated support for a wide range of industry-standard protocols, including Internet Protocols IPv4, andIPv6, NFS, SMB, HTTP, FTP, OpenStack Swift-based Object access for your cloud initiatives and native Hadoop Distributed File System (HDFS). As a result, you can simplify workflows, accelerate business analytics projects, support cloud infrastructure initiatives, and get more value from your enterprise applications and data.

Enterprise Data Protection and Management Software

Massive stores of data present unique management challenges, including disaster recovery, quota management, and offsite replication. Isilon data protection and management software provides you with powerful tools that help you protect your data assets, control costs, and optimize the storage resources and system performance of your Big Data environment.

DELL EMC ISILON INSIGHTIQ	Performance management	Maximize the performance of your Isilon scale-out storage system with innovative performance monitoring and reporting tools
DELL EMC ISILON SMARTPOOLS	Resource management	Implement a highly efficient, automated tiered storage strategy to optimize storage performance and efficiency
DELL EMC ISILON SMARTQUOTAS	Data management	Assign and manage quotas that seamlessly partition and thin provision storage into easily managed segments at the cluster, directory, subdirectory, user, and group levels
DELL EMC ISILON SMARTCONNECT	Data access	Enable client connection load balancing and the dynamic NFS failover and failback of client connections across storage nodes to optimize the use of cluster resources
DELL EMC ISILON SNAPSHOTIQ	Data protection	Protect data efficiently and reliably with secure, near-instantaneous snapshots, while incurring little to no performance overhead, and speed the recovery of critical data with near-immediate on-demand snapshot restores

DELL EMC ISILON CLOUDPOOLS	Resource management	Seamless tiering of cold or frozen data to public or private cloud providers
DELL EMC ISILON SMARTDEDUPE	Data management	Increase efficiency and reduce storage capacity requirements by up to 35 percent with deduplication of redundant data across multiple sources
DELL EMC ISILON SYNCIQ	Data replication	Replicate and distribute large mission-critical data sets to multiple shared storage systems in multiple sites for reliable disaster recovery capability, and use push-button failover and failback simplicity to increase the availability of mission-critical data
DELL EMC ISILON SMARTLOCK	Data retention	Protect your critical data against accidental, premature, or malicious alteration or deletion with our software-based approach to WORM, and meet stringent compliance and governance needs, such as SEC 17a-4 requirements
ASPERA FOR ISILON	Content delivery	Benefit from high-performance wide area file and content delivery

Hardware Platforms: Flexible Product Lines

Isilon offers highly flexible scale-out storage solutions with precisely the right storage on a “grow-as-you-go” basis, eliminating the need for overprovisioning. Isilon hardware platforms are built on the innovative Isilon scale-out storage architecture—designed for simplicity, value, outstanding performance, and unmatched reliability.

The new generation of Isilon hardware systems allow you to consolidate and support a wide range of file workloads. With an ultra-dense, modular architecture that provides four Isilon nodes within a single 4U chassis, Isilon systems enables organizations to reduce data center space requirements and related costs by up to 75%. The new Isilon platforms seamlessly integrate with existing Isilon clusters.



Dell EMC Isilon F800 All-Flash

DELL EMC Isilon F800 All-flash

This Isilon all-flash scale-out NAS storage system combines extreme performance and scalability with the massive efficiency and enterprise grade capabilities. Available in several configurations, the Isilon F800 delivers up to 250,000 IOPS and 15 GB/s bandwidth per chassis to support the most demanding file workloads.

PRODUCTS	F800
CAPACITY	96 TB to 924 TB per chassis
STORAGE	60 SSDs (1.6 TB, 3.2 TB, or 15.4 TB) per chassis

Use case examples

- Digital media: 4K, broadcast, real-time streaming, and post-production
- Electronic Design Automation: Design, simulation, verification, and analysis of electronic and mechanical systems, design for manufacturability
- Life Sciences: Genomics DNA and RNA sequencing



Dell EMC Isilon H600



Dell EMC Isilon H500



Dell EMC Isilon H400

DELL EMC Isilon Hybrid Scale-out NAS

Isilon hybrid platforms include Isilon H600 for high performance, Isilon H500 for a versatile balance of performance and capacity, and Isilon H400 to support a wide range of enterprise file workloads. With SSD technology for caching, Isilon hybrid systems offer additional performance gains for metadata-intensive operations.

PRODUCTS	H600, H500, H400
CAPACITY	H600: 72 TB to 144 TB per chassis H400 and H500: 120 TB to 480 TB per chassis
STORAGE	H600: 120 SAS drives (600 GB, 1.2 TB) per chassis H400, H500: 60 SATA drives (2 TB, 4 TB, or 8 TB) per chassis

Use case examples

- Digital media: broadcast, real-time streaming, rendering, and post-production
- Enterprise File Services: Home directories, File shares, group and project data
- Life Sciences: DNA and RNA sequencing and large-scale microscopy
- Analytics: Big data analytics, Hadoop and Splunk log analytics



Dell EMC Isilon A200



Dell EMC Isilon A2000

DELL EMC Isilon archive Scale-out NAS

Isilon archive platforms are designed to provide highly efficient and resilient archive storage. Isilon A200 is an ideal active archive storage solution that combines near-primary accessibility, ease of use, and capacity. Isilon A2000 is designed for high density, deep archive storage.

PRODUCTS	A200, A2000
CAPACITY	A200: 120 TB to 480 TB per chassis A2000: 800 TB per chassis
STORAGE	A200: 60 SATA drives (2 TB, 4 TB, or 8 TB) per chassis A2000: 80 SATA drives (10 TB) per chassis (A2000)

Use case examples

- Deep archives: for large-scale, archiving data storage that offers unmatched efficiency to lower costs
- Disaster recovery: disaster recovery target for organizations requiring an economical, large-capacity storage solution
- File archives: for economical storage and disk-based access to reference data to meet business, regulatory and legal requirements

World-Class Support Services Maximize the Value of Your Investment

Feel confident. We know that outstanding support is essential to the continued success of your business. That’s why investment in an Isilon scale-out storage solution is backed by a global team of support experts who are ready to respond to any disruption to your storage environment.

We understand that responding to problems after they occur is no longer enough. Potential issues must be anticipated and prevented to ensure the highest possible performance, data availability, and operational efficiency. That’s the role of Dell EMC Support Services. We’re here for you even before you need us.

Comprehensive Breakthrough Storage Solutions

Through the winning combination of the groundbreaking Isilon OneFS operating system, high-performance industry-standard hardware, and powerful data and storage management software, Isilon provides a complete portfolio of innovative storage solutions that drive business value for customers by optimizing mission-critical applications, workflows, and processes. Isilon storage enables enterprises and research organizations worldwide to manage large and rapidly growing amounts of data in a highly scalable, easy-to-manage, and cost-effective way.

Our innovative scale-out storage solutions—built for agility, simplicity, and value—provide both a tiered storage approach for specialized needs and the ability to unify digital workflows into a single high-performance, and highly scalable shared pool of storage. Every easy-to-manage Isilon solution is designed to accelerate workflow productivity and reduce capital and operational expenditures, while seamlessly scaling storage in lockstep with the growth of mission-critical data.

TAKE THE NEXT STEP

Contact your Dell EMC sales representative or authorized reseller to learn more about how Isilon scale-out NAS storage solutions can benefit your organization.

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