

Dell EMC PowerScale & dsmlSI for IBM Spectrum Protect Powered by Concat AG

Simplifies integration of IBM Spectrum Protect™ or IBM Spectrum Protect Plus™ to PowerScale

Business Challenges

Enterprises of all sizes in every market around the globe are inundated with data and the associated storage costs. Data protection has become even more critical because of this data growth. To meet these demands organizations are evaluating and implementing new technologies including scale-out physical storage, cloud services, data management, and archival solutions.

Solution Overview

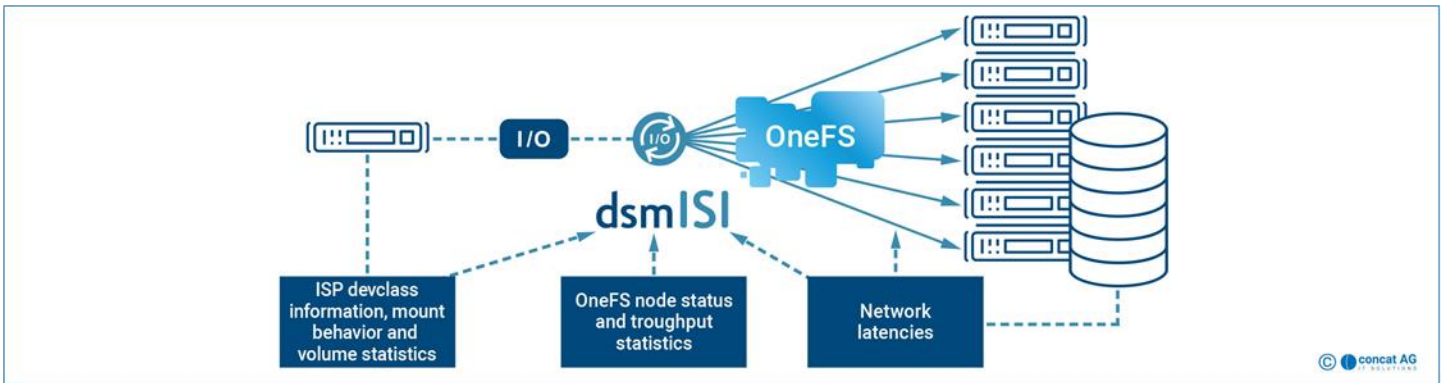
Dell EMC PowerScale provides market leading, massively powerful scale-out network attached storage (NAS) that can simply be paired with IBM Spectrum Protect™ (ISP) or IBM Spectrum Protect Plus™ and General Storage dsmlSI powered by Concat AG. As a result, data throughput to the PowerScale cluster is increased, as is the performance of IBM Spectrum Protect backup and restore processes due to the reduced impact of overhead processes. Delivering a simple, fast, and effective way to backup/restore and scale with your environment is a formidable advantage, especially as enterprises are increasingly relying on data for regulatory, analytic, and decision-making purposes

PowerScale OneFS provides seamless scalability of performance, capacity, and availability of the target file system. But the scalability of throughput performance can be limited by how the application communicates with PowerScale nodes in a cluster. Backup/restore workloads often transfer a large amount of data in a limited number of streams to a potentially large number of PowerScale nodes. This limits the bandwidth of the backup/restore workloads to a fraction of a PowerScale cluster's performance capabilities. OneFS is designed to read and write many data streams in parallel and dsmlSI allows backup/restore data streams to utilize all available nodes simultaneously. Backups/restores will complete faster as more PowerScale nodes participate in the backup/restore processes. IBM Spectrum Protect customers leveraging backups only backup changed with their unique "incremental forever" technology.

In IBM Spectrum Protect Plus environments dsmlSI is setup on the vsnap server, and dsmlSI additionally stripes the vsnap pool data across the Isilon nodes. dsmlSI automatically detects whenever Isilon nodes fail or when nodes are removed from or added to a cluster. Failovers are executed transparently for ISP. Dynamic load balancing at runtime ensures that all nodes of a cluster are being utilized equally.

Essentials

- Unleash the power**
 dsmlSI unleashes the full performance of PowerScale with IBM Spectrum Protect™ or IBM Spectrum Protect Plus™
- Utilize all PowerScale nodes**
 dsmlSI enables all nodes in a cluster to participate in IBM Spectrum Protect™ or IBM Spectrum Protect Plus™ backup/restore operations
- Enable high performance backups**
 dsmlSI significantly increases backup and restore speed
- Robust proven solution**
 dsmlSI has been in production environments with PowerScale since 2014
- PowerScale is the market leader**
 PowerScale is the number one Scale-Out NAS system as recognized by Gartner and IDC
- PowerScale is IBM Spectrum Protect™ or IBM Spectrum Protect Plus™ proven**
 The PowerScale and dsmlSI solution is operated successfully in markets such as banking, insurance, automobiles, colocations and interconnection service centers
- IBM Spectrum Protect™ or IBM Spectrum Protect Plus™ is a market leading solution**
 ISP is the enterprise backup solution that has been available on the market for the longest time (early 90s)



Dell EMC PowerScale as IBM Spectrum Protect or IBM Spectrum Protect Plus storage pool

Why PowerScale for backup

PowerScale, the industry's number #1 scale-out NAS platform, is an ideal choice for storing, managing, and protecting unstructured data. It's simple to manage at nearly any scale and delivers unmatched storage efficiency and flexibility. PowerScale offers node types from blazingly fast non-volatile memory express (NVMe) nodes to hybrid nodes that are optimized for backup/restore and archive. PowerScale supports capacities in the range of 10s of terabytes (TB) to 10s of petabytes (PB) in a single cluster. Our extremely highcapacity single name space is ideal for backup/restore data sets of nearly any size. Other enterprise features including backup snapshots, SmartLock for immutability, and Ransomware Defender all make PowerScale your best choice for backup/restore and archive of unstructured data.

Why dsmlSI for PowerScale and IBM Spectrum Protect

By enabling IBM Spectrum Protect or IBM Spectrum Protect Plus to utilize all PowerScale nodes in a cluster, and that newly added nodes can be easily incorporated, dsmlSI ensures PowerScale customers leveraging IBM Spectrum Protect and IBM Spectrum Protect Plus are able to maximize performance.

Take the next step

Contact your Dell EMC sales representative or authorized reseller to learn more about how PowerScale NAS archive solutions can benefit your organization. [Shop Dell EMC PowerScale](#) to compare features and get more information.



Many of the world's leading enterprises use dsmlSI and Dell EMC PowerScale to bring enterprise backup and recovery services to their clients. Dell Technologies has worked with Concat AG and General Storage for many years, developing solutions that help organizations gain the greatest performance and value from their backup/restore investments.



Learn more about Dell EMC PowerScale solutions



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