DELLTechnologies   (intel)

SOLUTION BRIEF: New Efficiency, New Insights

New Efficiency, New Insights: Put Unstructured Data to Work at the Edge, the Core, and the Cloud

Federal teams need new options to manage the growing volume of unstructured data generated from many different sources and devices, including mobile units, artificial intelligence and machine learning solutions, Internet of Things devices, video workloads, smart equipment, and drones.

Federal teams collect and manage this data in diverse environments, including at the edge, military bases (on/off base), field hospitals, mining, and agricultural operations, to name a few. Vital to inform smarter operations, unstructured data also requires significant processing power for split-second analysis, unhindered data mobility, and cloud access. Because of the sheer volumes of unstructured data being created, systems need to auto balance to prevent hot spots. Many federal agencies report that they cannot effectively derive insights from raw unstructured data.

Gartner projects that by 2025, 75 percent of all enterprise-generated data will be processed outside of a traditional data center or cloud.[1] Federal agencies and the federal systems integration/original equipment manufacturer (OEM) community must design solutions to capture, process, store, manage, and importantly – protect – data and the insights generated.

There is also a hard requirement to improve data mobility options and reduce associated costs. Federal data analysts require the ability to analyze data at the edge for quick, actionable insights and to keep data for the long-term, moving data from the edge to (and from) data center or cloud environments to maximize efficiency and avoid significant costs, particularly when data is moved from a cloud to a local infrastructure environment – which is too often the case.

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[1] What Edge Computing Means for Infrastructure and Operations Leaders

Many federal programs require customized solutions. Teams often need powerful appliance capabilities to aggregate and manage data at the edge. For example, the Federal Emergency Management Agency, Department of Defense, or Department of Justice might collect data that needs to be accessed and analyzed immediately, regardless of location, and then saved and accessed safely and securely. New, intelligent solutions can manage and protect unstructured data with efficiency and massive scalability.

ENTRY-LEVEL, MISSION-TOUGH, OEM-READY CONFIGURATIONS FOR THE #1 NAS FILE SYSTEM[2]

The new Dell EMC PowerScale family combines the industry's number one scale-out network-attached storage (NAS) file system, OneFS, with Dell EMC PowerEdge servers, at a starting point of 11.5 terabytes raw, with the capability to seamlessly scale to multi-petabytes. The PowerScale family consists of the new PowerScale OneFS software that is powering the new PowerScale nodes – F200 (all-flash), F600 (all-NVME), and Isilon nodes. That's right – PowerScale and Isilon nodes can be in the same cluster and seamlessly scale to the cloud all with one user experience. Agencies can add or remove nodes in seconds, integrating easily with existing infrastructure and multi-cloud environments – simplifying management and saving time and cost.

PowerScale provides simplicity at scale, intelligent insights, and multi-protocol support from edge to core to any cloud.

Dell EMC PowerScale
The next evolution of OneFS

Dell EMC PowerScale OneFS
Based on PowerEdge
OEM-Ready

Simplicity at scale
OneFS seamlessly clusters PowerScale and Isilon nodes

Any data, anywhere
Run PowerScale in the edge, core, or cloud with the same experience

Intelligent insights
Bring structure to your unstructured data with DataIQ empowering business and IT

PowerScale is OEM-ready – partners can integrate the solution with existing technology, and design for competitive advantage, gaining dedicated engineering and project management support. Dell Technologies Design Solutions offers hardware and software de-branding, branding, and customization options.

SIMPLICITY AT SCALE
OneFS simplicity and efficiency, flexibility, and performance

ANY DATA, ANYWHERE
Enterprise class with simultaneous multi-protocol support, edge to cloud

INTELLIGENT INSIGHTS
Understand and optimize infrastructure and data

SECURE
TAA-compliant; self-encrypting technology keeps data and insights safe

WHY DELL TECHNOLOGIES DESIGN SOLUTIONS

Dell Technologies Design Solutions is a dedicated team of engineers, project managers, trusted partners, and consultants. We partner with OEM customers to design and deploy solutions worldwide with the full breadth of proven technologies, including client, server, storage, and data protection options. Together we can grow your brand, get you to market faster, and reduce costs and complexity – building winning solutions that leverage Dell Technologies' global supply chain, facilities, and logistics.

Learn more about PowerScale benefits, visit:
https://www.delltechnologies.com/en-us/storage/powerscale.htm

Learn more about Dell Technologies Design Solutions, or to talk to a solutions specialist, visit:
https://www.delltechnologies.com/en-us/oem/storage-solutions.htm

[2] IDC WW Quarterly Enterprise Storage Systems Tracker, 2019 Q2, September 5, 2019 – Vendor Revenue

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