Dell PowerScale OneFS Release Contents

New Features, Functionality, and Enhancements

April 2025

H18031.12

White Paper

Abstract

This document summarizes the new features and functionality contained in each OneFS release from OneFS 7.1 to present.

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Executive summary

Overview

This document lists and briefly describes the new features and functionality delivered in each OneFS release since OneFS 7.1.

Revisions

Date	Part number/ revision	Description
November 2019	H18031	Updated for OneFS 8.2.1
December 2019	H18031.1	Updated for OneFS 8.2.2
June 2020	H18031.2	Updated for OneFS 9.0.0
October 2020	H18031.3	Updated for OneFS 9.1.0
April 2021	H18031.4	Updated for OneFS 9.2
October 2021	H18031.5	Updated for OneFS 9.3
March 2022	H18031.6	Updated for OneFS 9.4
January 2023	H18031.7	Updated for OneFS 9.5
December 2023	H18031.8	Updated for OneFS 9.7
April 2024	H18031.9	Updated for OneFS 9.8
August 2024	H18031.10	Updated for OneFS 9.9
December 2024	H18031.11	Updated for OneFS 9.10
April 2025	H18031.12	Updated for OneFS 9.11

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Dell Technologies and the authors of this document welcome your feedback on this document. Contact the Dell Technologies team by email.

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Note: For links to other documentation for this topic, see the **PowerScale Info Hub**.

OneFS 7.1

Release	Feature	Info
	Audit	SMB file access and configuration auditing, recording who did what on files and sending out to the Dell Common Event Enabler (CEE). CEE 6.0.3 provides support and integration with Varonis DatAdvantage for Windows.
OneFS 7.1 October 2013	Roles Based Administration	Cluster management access control system that divides up the powers of the "root" user and allows assignment of specific roles to other non-privileged users. RBAC has a set of built-in roles and the ability to create user-defined roles. The 3 built-in roles are Audit Administrator, System Administrator & Security Administrator.
	SmartDedupe	Post-process deduplication, reducing the physical data footprint by locating and sharing common elements across files using 'shadow store' containers.
	Job Engine v2	 Simultaneous Jobs: Allowing Multiple Jobs to run. Impact Control: Adding new Impact control rules for CPU and DISK usage. Monitoring: Improved monitoring and stats. Job Engine Exclusion Sets.

OneFS 7.1.1

Release	Feature	Info
OneFS	L3 Cache	Using a nodes SSD as a large, cost- effective, persistent read cache for evicted L2 data and metadata blocks.
7.1.1 July 2014	Roles Based Administration	WebUI interface and additional roles.
	SMB3 Multi- channel	Allows SMB3 storage devices to automatically discover and use multiple network connections simultaneously,

Release	Feature	Info
		increasing throughput and fault tolerance.
	MMC Integration	Allows a cluster's SMB shares to be managed using the MMC tool by providing support for the "Shared Folders" snap-in to MMC.
	S210 and X410	S210 and X410 Gen5 platform node support.

OneFS 7.2

Release	Feature	Info	
		NFS v3 and NFS v4 servers ported to userspace.	
		Rewritten and multi-instanced OneFS File System Driver.	
		Added NFS feature: Zone support for exports.	
	Userspace	Added NFS feature: Aliases for exported paths.	
	NFS NFS Access Zones	Added NFS feature: Audit.	
OneFS 7.2 November 2014		Improved NFS statistics reporting and management.	
		Improved NFS WebUI, added support for new features.	
		Improved NFS CLI, added support for new features.	
		Ability to authenticate against multiple authentication providers, including multiple instances of: AD, LDAP, NIS, Local User/Group Database.	
		Each access zone will be associated with:	

Release	Feature	Info
		One or more SmartConnect Zones that will be allowed access to this zone.
		 One set of shares that will be accessible through this Access zone.
		One or more Authentication providers to authenticate users for this Access zone.
		File access and configuration auditing for the NFS and SMB protocols.
	Protocol Auditing	Recording all file access events (who did what on files) and sending out to the Dell Common Event Enabler (CEE).
		CEE 6.3.1.0 provides support and integration with Varonis DatAdvantage for Windows.
	Source Based Routing	Routes traffic based on its source IP address.
	HD400	Isilon HD400 Gen5 platform node support.
	FSA	InsightIQ 3.1 support.

OneFS 7.2.1

Release	Feature	Info
	IPv6	Support for both IPv6-only and dual-stack configurations.
OneFS 7.2.1 June 2015	X210	X210 Gen5 platform node support.
	NL410	NL410 Gen5 platform node support.

OneFS 8.0

Release	Feature	Info
	SMB3 Continuous Availability	Support for SMB3 continuous availability and witness.
	NFS and SMB File Blocking	Control what type of files can be written via NFS or SMB to a cluster, based on include of exclude filter lists.
OneFS 8.0 December 2015	NFSv4 Failover	 NFSv4 clients can now use dynamic IPs which will give them more service availability and non-disruption during IP migration events or NFS service interruption. When a client's virtual IP address moves, or a OneFS group change event occurs, the client application will continue without disruption. As such, no unexpected I/O error will propagate back up to the client application.
	DNS Per Access Zone	 Ability to specify separate primary and secondary DNS servers for each access zone. DNS servers are configured by a new 'Groupnet' network object which lives above a subnet.
	Overlapping Access Zones	Ability to create Access Zones with overlapping datasets.
	HDFS Audit	Support for file access and configuration auditing for the HDFS protocol by recording all file access events (who did what on files) and sending out to the Dell Common Event Enabler (CEE).

Release	Feature	Info
	CloudPools 1.0	 Enables the movement and tiering of data via NFS or SMB from OneFS clusters to Amazon S3, Microsoft Azure, or OneFS to OneFS cloud storage. Archiving files to Cloud Storage. Recalling files from the Cloud Storage. NFS & SMB I/Os to the cloud data (Note: I/O utilizing any other protocols, local, HTTP, FTP, etc, is not supported and will return an EIO error). Encryption for data written to the cloud. Compression for data written to the cloud. Garbage collection for orphaned cloud objects whose retention period has expired. Feature interoperability with NDMP, SyncIQ, SnapshotIQ, WORM, Quota and etc.
	SmartDedupe Job Control	Allow re-configuration of priority and impact level for SmartDedupe job defaults.
	CELOG 2.0	Redesign of OneFS cluster event logging and alerting infrastructure.
	NDU and Rollback	Support for rolling (one node at a time) upgrades.

Release	Feature	Info
		Ability to rollback to prior OneFS version.
	SD Edge	Software-defined virtual OneFS nodes on VMware vSphere.

OneFS 8.0.1

Release	Feature	Info
	SynclQ Compliance Mode Failover	SynclQ failover and failback with compliance mode SmartLock, delivering automated disaster recovery for financial services SEC-17a4 regulatory compliance.
OneFS 8.0.1 September 2016	HDFS	 Single management point for Ambari operator to manage and monitor a Hadoop cluster with OneFS as the storage layer. Ranger authorization integration to ensure proper user access to files are governed by Ranger policies and OneFS file system access control. Kerberos encryption to secure and encrypt data from HDFS client to/from OneFS, preventing rogue users from sniffing HDFS traffic on network. Data-node load balancing, avoiding overloading nodes and increasing cluster resilience.
		Ambari metrics and alerting.
	CloudPools Proxy Support	Multiple nodes can now simultaneously tier to the cloud.

Release	Feature	Info
		 No direct external network exposure of OneFS systems for CloudPools. No network workarounds necessary to configure CloudPools.
	Mac OSX Support	 Enables Mac OS specific features like color tagging of files & extended metadata. Mac users can leverage powerful Mac features to sort, tag files for efficient file categorization. Improved directory listing speed from Mac clients, in particular for large directories.
	Audit Performance	 Audit at scale – up to 50 million audit events. File access and configuration auditing records all file access events (who did what on files) and sends them out to the Dell Common Event Enabler (CEE). CEE 6.5 provides support and integration with Varonis DatAdvantage for Windows, specifically allowing: Usable Access Auditing; Recommendations, Analytics and Modeling; and Data Owner Identification and Involvement.
	AIMA Performance	 Ensuring that proper user access to OneFS is maintained with server consolidation (e.g. forest/domain collapse) by supported SID History. Negative caching helps reduce the load placed on authentication providers by caching the information that a

Release	Feature	Info
		user or group does not exist in any authentication provider.
		A policy mechanism to control containerization, so that it may be optional, allowing customers explicitly to opt for better small-file storage efficiency in exchange for some small-file performance.
	Small File Efficiency for Healthcare PACS	 A class of specialized shadow stores to act as containers. These shadow stores differ from existing shadow stores in a few ways in order to isolate fragmentation, to support tiering, and to support future optimizations which will be specific to single-reference stores. A method to pack, unpack, and
		repack data into, out of, and between containers.
		Improved performance and usability for the SMB share and NFS export pages.
	UI Scalability	WebUI now can handle long lists, and the backing stores are proven up to 40,000 records. The WebUI now returns ten items per page.
	Partitioned Performance Monitoring	Performance statistics for Job Engine and data services.

OneFS 8.1

Release	Feature	Info
	Gen6 Hardware	Support for new Isilon F800, H600, H500, H400, A200, and A2000 Gen6 platform hardware.
OneFS 8.1 May 2017	E Licensing	Support for E Licensing.
	SD Edge	Software-defined OneFS on single VMware vSphere host.

OneFS 8.1.1

Release	Feature	Info
	SMB3 Encryption	Allows OneFS SMB server to be configured for SMB3 encryption on a per share, zone, or cluster-wide basis.
OneFS 8.1.1 December 2017	NFSv3 Character Encoding	Setting cluster encoding and export encoding to the same character set will yield RFC compliant filenames, enabling exports to NFS clients using non-western characters.
	HDFS Cloudera Navigator	Support for Cloudera Navigator – lineage and metadata management integration.
	CloudPools for GCP	Enables users to use NFS or SMB to move data from OneFS clusters to Google Cloud Storage and tier it.

OneFS 8.1.2

Release	Feature	Info
OneFS 8.1.2 August 2018	HDFS	Hadoop 3 Support.
		OneFS Ambari Management Pack.
		WebHDFS support.
		LLAP support.
		Ranger with SSL support.

OneFS 8.1.3

Release	Feature	Info
OneFS 8.1.3 January 2019	In-line Compression	Support for in-line compression on F810 with FPGA offload.
	F810	F810 Gen6 hardware platform support.

OneFS 8.2

Release	Feature	Info
	Cluster Scale	252 node cluster support.
	SMB Performance Dataset Monitoring	Performance statistics for SMB.
	SmartQuotas	Support for 500K quotas.
OneFS 8.2 May 2019		Percentage based quotas.
		Default directory quotas.
		Client-side reporting improvements.
		Application logical quotas.

Release	Feature	Info
	SmartPools FilePolicy Job	Efficient changelist-based SmartPools file pool policy job.
	HDFS Encryption	Support for Hadoop data encryption (TDE).
	SynclQ	 SynclQ encryption for secure replication over the WAN and other untrusted networks. SynclQ bandwidth throttling.
	SmartConnect	SmartConnect and Flexnet update.
	SnapshotIQ Domains	Re-architecting of SnapshotIQ framework to avoid costly snapshot painting and drive scalability and other efficiencies.
	Small File Efficiency Defragmenter	Introduction of small file efficiency job for defragmenting shadow stores and opening up SFSE to low-write archive workloads beyond healthcare PACS.
	SmartLock	Introduction of ComplianceStoreDelete job.
	Audit	Support for granular audit event selection, avoiding the collection of unneeded audit events that 3 rd party audit applications do not register for.
	Zone-aware RBAC	Multi-tenant, access zone aware, role-based access control.
	CloudPools 2.0	 Support for AWS signature authentication version 4. Deliver network statistics per CloudPools account or file pool policy.

Release	Feature	Info
		Support for Alibaba Cloud and Amazon C2S public cloud providers.
		Full integration of CloudPools and data services like Snapshot, Sparse file handling, Quota, AVScan and WORM.
		2-way NDMP support for Gen6 platforms with combo Fibre Channel/10GbE interface card.
	NDMP 2-way FC Adapter	Support of NDMP Redirector and Throttler.
		Support of ComboCopy for CloudPools.
	SSH Multi-factor Auth	Multi-factor authentication support via integration with Duo service, using phone call-back and SMS passcode.
		Support for simultaneous firmware upgrade
	Upgrade / NDU	Ability to pause and resume OneFS upgrade
		Patch installation during OneFS upgrade
		Removal of dependency on Flash from WebUI.
	WebUI	Improved internal network config pages.
	H5600	Isilon H5600 Gen6 deep chassis introduction.
		Dell Z9100 switches supporting leaf/spine architecture.
	Leaf/spine backend	144 nodes max cluster with leaf/spine backend.

OneFS 8.2.1

Release	Feature	Info
	In-line Deduplication	 Support for in-line deduplication on the F810 platform. Data Reduction reporting enhancements.
OneFS 8.2.1 September 2019	Serviceability Enhancements	 Instant secure erase. Improved Healthchecks. Patch Framework improvements.
	PlatformAPI	Enhancements for CommVault and DataIQ.

OneFS 8.2.2

Release	Feature	Info
OneFS 8.2.2 January 2020	H5600 In-line Data Reduction	Support for in-line compression and deduplication on the deep-hybrid H5600 platform.
	Large file support	Support for 16TB files.
	25GbE support	Support for front-end 25Gb Ethernet connectivity.
	NFS Performance Dataset Monitoring	Performance statistics for NFS protocol.
	NDU	Parallel upgrades.

OneFS 9.0.0

Release	Feature	Info
	F600 & F200	OneFS support for the new PowerScale F600-NVMe and F200 platform.
	In-line Data Reduction	Support for in-line compress and deduplication on the all- flash PowerScale F600-NVMe and F200 platforms.
OneFS 9.0.0 June 2020	S3 Protocol	Support for the S3 protocol, expanding the data lake to native file and object.
	IPMI	IPMI support for remote console and power control of nodes.
	HDFS	HDFS Ranger NANON Support

OneFS 9.1.0

Release	Feature	Info
OneFS 9.1.0 October 2020	CAVA Antivirus Support	CAVA Antivirus support for SMB clients using Common Event Enabler (CEE) plus integration with most AV software vendors to scan files, providing better performance than current ICAP.
	Faster Client Failovers	Improved group change time for planned shutdowns. Shrinks the window for data unavailability due to group changes to less than 5 seconds.

Release	Feature	Info
	CloudPools Cloud Object Cache	CloudPools traffic optimization, reducing the number of network round-trips when recalling data from a CloudPools target.
	Audit Log Purging	Ability to automatically and periodically purge audit logs.
	Customizable CELOG Alerts	Configurable event thresholds allow users to adjust the value at which events are triggered for various cluster statistics.
	In-product Activation	Activate product licenses with ELMS over ESRS.
	NDMP Multi- stream BRE	Restartable backup support for multi-stream NDMP.

OneFS 9.2.0

Release	Feature	Info
OneFS 9.2.0 April 2021	PowerScale F900	OneFS support for the new PowerScale F900-NVMe platform.
	In-line Data Reduction	Support for in-line compress and deduplication on the all- flash PowerScale F900- NVMe platform.
	NFSoRDMA	NFS over RDMA support for NFS v3 for PowerScale and Isilon nodes which contain supported Ethernet interface cards.
	Enterprise Key Management for SEDs	Support for external KMIP compliant key managers such as SKLM, SafeNet and Vormetric for storing

Release	Feature	Info
		encryption keys on SED clusters.
	Full IPv6 Support	Full IPv6 support that meets the requirements for USGv6 compliance.
	CELOG WebUI	Addition of a web-based graphical user interface for CELOG allowing events to be displayed, searched, categorized, filtered, ignored, and resolved.
	IB Backend for PowerScale	Support for backend InfiniBand network interfaces on PowerScale nodes, for compatibility with legacy IB clusters.
	Cluster Configuration Export/Import	Ability to export cluster configuration, which can then be used to restore a configuration to the original cluster or a different cluster.
	Drain Based Upgrade	Nodes are prevented from rebooting or restarting protocol services until all SMB clients have disconnected from the node.

OneFS 9.2.1

Release	Feature	Info
OneFS 9.2.1 May 2021	PowerScale Portfolio Support	OneFS support for the new PowerScale H700, H7000, A300, and A3000 platforms.

Release	Feature	Info
	PowerScale Portfolio Support	OneFS support for the new PowerScale P100 and B100 performance and backup accelerator nodes.
	Writable Snapshots	Enables the creation and management of a space and time efficient, modifiable copy of a regular OneFS snapshot.
	NFS v4.1 and v4.2 Support	Connectivity support for versions 4.1 and 4.2 of the NFS file access protocol.
OneFS 9.3 October 2021	Long filename support	Provision for file names up to 1024 bytes, allowing support for long names in UTF-8 multi-byte character sets.
	Inline data in inodes	Data efficiency feature allowing a small file's data to be stored in unused space within its inode block.
	HDFS ACLs	Provide support for HDFS- 4685 access control lists, allowing users to manage permissions on their datasets from Hadoop clients.
	Job engine exclusions	Allow Job engine jobs to be run on a defined subset of a cluster's nodes.
	CloudPools Recall	Improved CloudPools file recall & rehydrate performance.
	Safe SMB client disconnects	Allows SMB clients the opportunity to flush their

Release	Feature	Info
		caches prior to being disconnected.
	S3 protocol enhancements	Added support for S3 chunked upload, multi-object delete, and non-slash delimiters for lists.

Release	Feature	Info
OneFS 9.4 April 2022	SmartSync Data Mover	Introduction of a new OneFS SmartSync data mover, allowing flexible data movement and copying, incremental resyncs, push and pull data transfer, and one-time file to object copy.
	IB to Ethernet Migration	Non-disruptive rolling Infiniband to Ethernet back- end network migration for legacy Gen6 clusters.
	Secure Boot	Secure boot support is extended to include the F900, F600, F200, H700/7000, and A300/3000 platforms.
	Smarter SmartConnect Diagnostics	Identifies non-resolvable nodes and provides their detailed status, allowing the root cause to be easily pinpointed.
	QLC Drive Support	Support is added in OneFS 9.4 to accommodate quad- level cell (QLC) NVMe drives in the F900 and F600 platform nodes.

Release	Feature	Info
	In-line Dedupe	In-line deduplication will be enabled by default on new OneFS 9.4 clusters. Clusters upgraded to OneFS 9.4 will maintain their current dedupe configuration.
	Healthcheck Auto- updates	Automatic monitoring, download, and installation of new healthcheck packages as they are released.
	CloudIQ Protocol Statistics	New protocol statistics 'count' keys are added, allowing performance to be measured over a specified time window and providing point-in-time protocol information.
	SRS Alerts and CELOG Event Limiting	Prevents CELOG from sending 151 event types (out of 433 total) to Dell SRS and restricts CELOG alerts from customercreated channels.
	CloudPools Statistics	Automated statistics gathering on CloudPools accounts and policies providing insights for planning and troubleshooting CloudPools- related activities.

Release	Feature	Info
OneFS 9.5 January 2023	Security / Federal APL	 Authentication: Multi-factor authentication with CAC/PIV; SSO for WebUI; PKI-based authentication. Data Encryption: FIPS 140-2 Data in Flight for major protocols; FIPS 140-2 Data at Rest via SEDs; SEDs Master Key rekey; TLS 1.2 support. Host-Based Firewall: Restriction of management interface to specified subnet & hosts to specified IP pools. IPV6-only Network Support: Support for USGv6R1 standard. Common Criteria Certification: International security standards compliance. DoD APL Enablement: Implementation of 300+DISA requirements to support DoD Approved Products List (APL) inclusion.
	SmartQoS	Ability to limit NFS3, NFS4, NFSoRDMA, S3 or SMB protocol operations per second (Protocol Ops), including mixed traffic to the same workload.
	SmartPools	SmartPools tier and node pool transfer limits, providing spillover protection.

Release	Feature	Info
	SupportAssist	Next generation remote connectivity framework for transmission of events, logs, and telemetry data from a PowerScale cluster to Dell Support.
	F-series Performance	F600 & F900 streaming read performance enhancement via metadata and lock caching, multistream RBM, and SSD L2 bypass.
	F200 Networking	100GbE frontend & backend support for F200 nodes.
	H-series/A-series Networking	Mellanox CX6 support for H700, H7000, A300, and A3000 nodes.
	QLC SED Drives	QLC non-FIPS 15TB & 30TB drive support.
	Node Management	Enablement of 1GbE management interface on PowerScale nodes.

Release	Feature	Info
OneFS 9.6 January 2023	APEX File Storage for AWS	 Cloud-only Release. Data mobility to the cloud. Up to 1PB per cluster namespace. Leading file performance. Up to 6 SSD nodes per cluster. Support for OneFS enterprise features.

Release	Feature	Info
OneFS 9.7 December 2023	Cloud	 APEX File Storage for AWS 60% capacity increase. Streamlined and automated APEX provisioning and deployment via Terraform scripts. HDFS, FTP, and SmartQoS support.
	Configuration	Cluster configuration backup and restore utility.
	Networking	Externally managed IP addresses.
	Parallel Restripe	Job engine support for parallel restriper jobs.
	Performance	Streaming write performance improvements for NVMe-based F710 and F210 all-flash platforms.

Release	Feature	Info	
	Platform	Infrastructure support for next generation all-flash node hardware platforms.	
	SmartConnect	SmartConnect awareness for SMB3 Multichannel.	
	SmartSync	SmartSync GCP support.	
	Authentication	Single sign-on (SSO) lookup enhancements.	

Release	Feature	Info
	Cloud	 APEX File Storage for Azure Cirrus single sign-on (SSO) support for PowerScale WebUI
OneFS 9.8 April 2024	NFS Protocol	RDMA for NFSv4.1
	Networking	Source-based routing support for IPv6 networks.
	SmartThrottling	Job engine automatic impact management and resource throttling.
	Platform	Infrastructure support for next generation F910 all- flash node hardware platform.
	Support	 Smart Log diagnostic gathering and HealthCheck enhancements. IceAge automated core file analysis tool.

Release	Feature	Info
	Events and Alerts	 Automatic maintenance mode. Superfluous alerting suppression.
	Upgrade	 NDU improved pre-upgrade health checks SMB disruption reduction.
OneFS 9.9 August 2024	Protocols	 Support for a multipath NFS driver for Linux client systems. Complete removal of deprecated SWIFT object protocol.
	Networking	 Nvidia Spectrum-4 switch support for F710 200GbE. Support for in-field Ethernet adapter (NIC) swaps.
	CoS / QoS Tagging	Differentiated Service Code Point) (DSCP) support added, enabling class/quality of service tagging.
	Platform	Infrastructure support for F710 nodes with 61TB QLC drives and a 200Gb/s back-end Ethernet network.
	Support	IPv6 networking added for SupportAssist phone home service.

Release	Feature Info	
OneFS 9.10 December 2024	Metadata Indexing	Introduction of MetadatalQ ElasticSearch-based off- cluster metadata indexing and management solution.
	Networking	Front-end and back-end InfiniBand networking option for the F910 and F710 platforms.
	Platform	Support for F910 nodes with 61TB QLC SSD drives and a 200Gb/s back-end Ethernet network. Support for 24TB HDDs on
		 Support for 24TB HDDs on A-series and H-series nodes.
	Security	OpenSSL 3.0 and TLS 1.3 transport layer security support.
		WebUI conversion of Ext JS Web UI pages to React JS.
		Healthcheck WebUI improvements
	Support	SupportAssist rebranded to 'Dell Technologies Connectivity'

Release	Feature	Info
OneFS 9.11 April 2025	Cloud	Support for Dell PowerScale for Microsoft Azure

Release	Feature	Info
	Networking	Dynamic IP pools added to SmartConnect Basic
	Platform	Support for F910 nodes with 122TB QLC SSD drives
	Protocol	S3 cluster status API
	Replication	SmartSync File-to-Object SynclQ new policy default
	Support	Seamless ESRS to DTCS migration
	Reliability	Software Journal Mirroring for high-capacity QLC SSD nodes.

Summary

This document summarizes the new features and functionality contained in each OneFS release, from OneFS 7.1 in October 2013 to present. OneFS releases are assigned a release number (for example, 8.2.1) based on the following criteria:

Release Digit	Release Type	Description
First	Major	A release with functionality that provides a substantial move forward in the product
Second	Major	Release with functionality in the same family and theme as the parent major release.
Third	Minor	New features and functionality added between major releases.

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