Swordfish Property Guide

Version: 1.2.4

Abstract: The Swordfish Property Guide provides a high-level reference of property usage throughout the Swordfish schema and object model.

SNIA Approved Publication

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USAGE

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0.0.1 Revision History

The evolution of this document is summarized in Table 1.

Table 1: Revision History

Date	Rev	Notes
2 March 2021	Initial Version	Released as v1.2.2 to match bundle version
30 August 2021	v1.2.3	Updated with latest property definitions.
5 December 2021	1.2.3	Release as SNIA Approved Publication
12 April 2022	1.2.4	Release as Working Draft

About SNIA

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Acknowledgements

The SNIA Scalable Storage Management Technical Work Group, which developed and reviewed this work in progress, would like to recognize the significant contributions made by the following members listed in Table 2.

Table 2: Contributors

Member	Representatives (* – prior employer)
Intel Corporation	Richelle Ahlvers

1 Introduction

1.1 Overview

The Swordfish Scalable Storage Management API ("Swordfish") defines a RESTful interface and a standardized data model to provide a scalable, customer-centric interface for managing storage and related data services. It extends the Redfish Scalable Platforms Management API Specification to manage block storage, file systems, object storage, and storage network infrastructure, with a focus on common operational and business concerns of storage management.

The Swordfish API is defined using CSDL, JSON, and/or YAML schema. However, Swordfish is a REST-based API and can be used by clients without requiring an explicit knowledge of the underlying schema.

This document provides a comprehensive reference for the properties defined within the schema that can be provided by the Swordfish API.

1.2 Who should read this document?

This document is intended primarily for end users and other consumers of Swordfish data to look up property definitions, without requiring a detailed knowledge of the schema as a whole. Schema authors may also use this document to locate existing property definitions within the Swordfish Schema.

1.3 Using this guide

Every Redfish API response consists of a JSON payload containing properties that are strictly defined by a Schema for that Resource. The Schema defining a particular Resource can be determined from the value of the "@odata.type" property returned in every Redfish response. This guide details the definitions for every Redfish standard property defined in the DMTF-published Redfish Schemas.

The property-level details include:

Column	Purpose
Property Name	The name of the JSON property as it appears, case sensitive, in the JSON payload.

Column	Purpose
Defined in Schemas	The names of the Redfish Schemas where this property is defined, and therefore in which Resources it may appear. For properties that appear within embedded JSON objects, the object name appears in parentheses.
Type	The JSON data types for the property, which can include boolean, number, string, or object. String types that use defined enumerations state `(enum)`. Number types state units, where used.
Description	The description of the property, as copied directly from the Schema `Description` definition, or, for properties that appear in multiple Schemas, a general description of its usage in any of the listed Schemas.

2 Property Index

Property Name	Defined In Schema(s)	Type	Description
AccessCapabilities	FileSystem	array	An array of supported IO access capabilities.
	DataStorage LineOfService	array	Required access capabilities.
	Volume	array	Supported IO access capabilities.
AccessCapability	StorageGroup (MappedVolumes)	string (enum)	Supported IO access capability.
AccessProtocols	IOConnectivity LineOfService	array	SupportedAccessProtocols.
AccessState	StorageGroup	string (enum)	AccessState for this storage group.
Actions	*various* (CapacitySource, ClassOfService …)	object	The available actions for this resource.
AddDrives (Action)	StoragePool (Actions)	object	This action is used to add an additional drive, or set of drives, to a capacity source for the storage pool.
AllocatedBytes	CapacitySource (ProvidedCapacity > Data), CapacitySource (ProvidedCapacity > Metadata), CapacitySource (ProvidedCapacity > Snapshot)	integer (bytes)	The number of bytes currently allocated by the storage system in this data store for this data type.
AllocatedPools	StoragePool	object	A reference to the collection of storage pools allocated from this storage pool.

Property Name	Defined In Schema(s)	Type	Description
	Volume	object	An array of references to StoragePools allocated from this Volume.
AllocatedVolumes	StoragePool	object	A reference to the collection of volumes allocated from this storage pool.
AntivirusEngine provider	DataSecurity LineOfService	string	AntiVirus provider.
AntivirusScan Policies	DataSecurity LineOfService	array	Policy for triggering an AntiVirus scan.
AntiVirusScanTrig ger	DataSecurity LineOfService (AntivirusScan Policies), DataSecurityLoS Capabilities (SupportedAn- tivirusScan Policies)	string (enum)	Types of antivirus scan triggers.
AssignReplicaTarg et (Action)	ConsistencyGroup (Actions)	object	This action is used to establish a replication relationship by assigning an existing consistency group to serve as a target replica for an existing source consistency group.
	Volume (Actions)	object	This action is used to establish a replication relationship by assigning an existing volume to serve as a target replica for an existing source volume.
AssociatedDomains	NVMeDomain (Links)	array	An array of links to associated domains.
AssociatedFeat uresRegistry	Volume (Operations)	object	A reference to the task associated with the operation if any.

Property Name	Defined In Schema(s)	Type	Description
Authentication Method	StorageGroup	string (enum)	The Authentication method used for the Endpoints involved in this StorageGroup.
AuthenticationTy pe	DataSecurityLoS Capabilities (Supported-HostAuthentica-tionTypes), DataSecurityLoS Capabilities (SupportedUserAuthenticationTypes)	string (enum)	Enumeration of authentication algorithms.
AvailableFirmwa re Images	NVMeDomain	array	A collection of available firmware images.
AverageIOBytes	IOPerformanceLoS Capabilities (Supporte-dIOWorkloads > Components)	integer (bytes)	Average I/O Size for this component.
AverageIOOperat ion LatencyMi-croseconds	IOPerformance LineOfService	integer (us)	Expected average IO latency.
BlockSizeBytes	FileSystem	integer (bytes)	Block size of the file system in bytes.
	StoragePool	integer (bytes)	Maximum Block size in bytes.
	Volume	integer (bytes)	The size of the smallest addressable unit (Block) of this volume in bytes.
CacheDataVolume s	Volume (Links)	array	A pointer to the data volumes this volume serves as a cache volume.
CacheVolumeSour ce	Volume (Links)	object	A pointer to the cache volume source for this volume.
Capacity	FileSystem	object	Capacity allocated to the file system.

Property Name	Defined In Schema(s)	Type	Description
	StoragePool, Volume	object	Capacity utilization.
CapacityBytes	Volume	integer (bytes)	The size in bytes of this Volume.
CapacitySource	StoragePool (Actions > AddDrives (Action))	object	The capacity source to be extended.
CapacitySources	FileSystem	array	An array of capacity sources for the file system.
	StoragePool	array	An array of space allocations to this store.
	Volume	array	An array of space allocations to this volume.
CasePreserved	FileSystem	boolean	The case of file names is preserved by the file system.
CaseSensitive	FileSystem	boolean	Case sensitive file names are supported by the file system.
CASupported	FileShare	boolean	Continuous Availability is supported. Client/Server mediated recovery from network and server failure with application transparency.
ChangeRAIDLayout (Action)	Volume (Actions)	object	Request system change the RAID layout of the volume.
ChannelEncryptionStrength	DataSecurity LineOfService	string (enum)	Key size for transport channel encryption.
ChapInfo	StorageGroup	array	The credential information used to authenticate the endpoints in this StorageGroup.
CHAPPassword	StorageGroup (ChapInfo)	string	The password for CHAP authentication.

Property Name	Defined In Schema(s)	Type	Description
CHAPUser	StorageGroup (ChapInfo)	string	The username for CHAP authentication.
CharacterCodeSet	FileSystem	array	An array of the character sets or encodings supported by the file system.
	FileSystem (CharacterCodeSet)	string (enum)	Supported character code standards for different alphabets and languages.
CheckConsistency (Action)	Volume (Actions)	object	This action is used to force a check of the Volume's parity or redundant data to ensure it matches calculated values.
ChildStorageGroups	StorageGroup (Links)	array	Child StorageGroups.
ClassesOfService	StoragePool	object	The ClassesOfService supported by this storage pool.
	StorageService	object	The ClassesOfService that all storage in this StorageService can support.
ClassOfService	FileShare (Links)	object	A link to the ClassOfService for this file share.
	FileSystem (Links)	object	The ClassOfService of this file system.
	StorageGroup (Links)	object	The ClassOfService that all storage in this StorageGroup conforms to.
	Volume (Links)	object	The ClassOfService that this storage volume conforms to.
ClassOfService Version	ClassOfService	string	The value identifies the current version of this class of service definition.
ClientEndpoint Groups	StorageGroup	array	Groups of client endpoints in this storage group.
	StorageService	object	Client endpoint groups.

Property Name	Defined In Schema(s)	Type	Description
ClientEndpoints	Volume (Links)	array	An array of references to the client Endpoints associated with this volume.
ClusterSizeBytes	FileSystem	integer (bytes)	A value indicating the minimum file allocation size imposed by the file system.
Components	IOPerformanceLoS Capabilities (SupportedIOWorkloads)	array	An array of IO workload component descriptions.
Compressed	StoragePool	boolean	Indicator of whether or not the StoragePool has compression enabled.
	Volume	boolean	Indicator of whether or not the Volume has compression enabled.
Compression Enabled	StoragePool	boolean	Indicates whether or not compression is enabled on the storage pool.
Consistency GroupName	ConsistencyGroup (Actions > Cre- ateReplicaTarget (Action))	string	The Name for the new target consistency group.
ConsistencyGrou ps	Volume (Links)	array	An array of references to the ConsistencyGroups associated with this volume.
	StorageService	object	ConsistencyGroups.
ConsistencyMeth od	ConsistencyGroup	string (enum)	The consistency method used by this group.
ConsistencyType	ConsistencyGroup	string (enum)	The consistency type used by this group.

Property Name	Defined In Schema(s)	Type	Description
ConsumedBytes	CapacitySource (ProvidedCapacity > Data), CapacitySource (ProvidedCapacity > Metadata), CapacitySource (ProvidedCapacity > Snapshot)	integer (bytes)	The number of bytes consumed in this data store for this data type.
CreateReplicas (Action)	DataProtection LineOfService (Actions)	object	This action creates an on-demand replica.
CreateReplicaTarget (Action)	ConsistencyGroup (Actions)	object	This action is used to create a new consistency group resource to provide expanded data protection through a replica relationship with the specified source consistency group.
	Volume (Actions)	object	This action is used to create a new volume resource to provide expanded data protection through a replica relationship with the specified source volume.
Data	CapacitySource (ProvidedCapacity)	object	The capacity information relating to the user data.
DataProtectionLines OfService	ClassOfService	array	A collection of DataProtection line of service elements.
DataProtectionLoS Capabilities	StorageService, StorageService (Links)	object	The data protection capabilities of this service.
DataSanitization Policy	DataSecurity LineOfService	string (enum)	Data sanitization policy.

Property Name	Defined In Schema(s)	Type	Description
	DataSecurityLoS Capabilities (SupportedDataSanitizationPolicies)	string (enum)	Types of data sanitization policies.
DataSecurityLines OfService	ClassOfService	array	A collection of DataSecurity line of service elements.
DataSecurityLoS Capabilities	StorageService, StorageService (Links)	object	The data security capabilities of this service.
DataStorage LinesOfSer- vice	ClassOfService	array	A collection of DataStorage line of service elements.
DataStorage LoS Capabilities	StorageService, StorageService (Links)	object	The data storage capabilities of this service.
DataUnitsRead	StoragePool (NVMeEn- duranceGroup- Properties > EndGrpLifetime)	integer	The property contains the total number of data units read from this endurance group.
DataUnitsWritten	StoragePool (NVMeEn- duranceGroup- Properties > EndGrpLifetime)	integer	The property contains the total number of data units written from this endurance group.
DedicatedSpare Drives	StoragePool (Links)	array	An array of references to the drives which are dedicated spares for this StoragePool.
	Volume (Links)	array	An array of references to the drives which are dedicated spares for this volume.
Deduplicated	StoragePool	boolean	Indicator of whether or not the StoragePool has deduplication enabled.

Property Name	Defined In Schema(s)	Type	Description
	Volume	boolean	Indicator of whether or not the Volume has deduplication enabled.
Deduplication Enabled	StoragePool	boolean	Indicates whether or not deduplication is enabled on the storage pool.
DefaultAccess Capabilities	FileShare	array	An array of default access capabilities for the file share. The types of default access can include Read, Write, and/or Execute.
DefaultClassOf Service	StorageService, StorageService (Links)	object	The default class of service for entities allocated by this storage service.
	StoragePool, StoragePool (Links)	object	The default class of service for entities allocated from this storage pool.
DefaultCompressio nBehavior	StoragePool	boolean	Indicates the default dedupe behavior applied to the child resource (E.g., volume or storage pool) created out of the storage pool if the 'Compressed' property is not set on the create request.
DefaultDeduplicationBehavior	StoragePool	boolean	Indicates the default deduplication behavior applied to the child resource (E.g., volume or storage pool) created out of the storage pool if the 'Deduplicated' property is not set on the create request.
DefaultEncryption Behavior	StoragePool	boolean	Indicates the default dedupe behavior applied to the child resource (E.g., volume or storage pool) created out of the storage pool if the 'Encrypted' property is not set on the create request.

Property Name	Defined In Schema(s)	Type	Description
DeleteTargetConsistencyGroup	ConsistencyGroup (Actions > RemoveReplicaRelationship (Action))	boolean	Indicate whether or not to delete the target consistency group as part of the operation.
DeleteTargetVolume	Volume (Actions > RemoveReplicaRelationship (Action))	boolean	Indicate whether or not to delete the target volume as part of the operation.
DHChapInfo	StorageGroup	array	The credential information used to authenticate the endpoints in this StorageGroup for DHCHAP.
DisplayName	Volume	string	A user-configurable string to name the volume.
DomainMembers	NVMeDomain	array	The members of the domain.
Drives	Volume (Links)	array	An array of references to the drives which contain this volume. This will reference Drives that either wholly or only partly contain this volume.
	Volume (Actions > ChangeRAIDLayout (Action))	array	An array of the drives to be used by the volume.
	StoragePool (Actions > AddDrives (Action))	array	The drive(s) to be added.
	StoragePool (Actions > RemoveDrives (Action))	array	The drive(s) to be removed.
	StorageService	object	The set of drives managed by this storage service.

Property Name	Defined In Schema(s)	Type	Description
Duration	IOPerformanceLoS Capabilities (Supporte-dIOWorkloads > Components)	string (seconds)	Duration that this component is active.
Enable	StoragePool (Actions > SetCompression-State (Action))	boolean	This property indicates the desired compression state of the storage pool.
	StoragePool (Actions > SetDeduplica-tionState (Action))	boolean	This property indicates the desired deduplication state of the storage pool.
	StoragePool (Actions > SetEn-cryptionState (Action))	boolean	This property indicates the desired encryption state of the storage pool.
Encrypted	StoragePool	boolean	Indicator of whether or not the StoragePool has encryption enabled.
	Volume	boolean	Is this Volume encrypted.
EncryptionEnabled	StoragePool	boolean	Indicates whether or not encryption is enabled on the storage pool.
EncryptionKey	StorageService (Actions > SetEn-cryptionKey (Action))	string	The encryption key to set on the storage subsystem.
EncryptionTypes	Volume	array	The types of encryption used by this Volume.
EndGrpLifetime	StoragePool (NVMeEnduranceGroupProperties)	object	This property contains the Endurance Group Lifetime properties.

Property Name	Defined In Schema(s)	Type	Description
EndpointGroups	StorageService	object	Client and Server endpoint groups.
Endpoints	StorageService	object	Endpoints.
EnduranceEstimate	StoragePool (NVMeEn-duranceGroup-Properties > EndGrpLifetime)	integer	This property contains an estimate of the total number of data bytes that may be written to the Endurance Group over the lifetime of the Endurance Group assuming a write amplication of 1.
EnduranceGroupIdentifier	StoragePool (NVMeSetProperties)	string	A 16-bit hex value that contains the endurance group identifier.
ErrorInformationLogEntryCount	StoragePool (NVMeEn-duranceGroup-Properties > EndGrpLifetime)	integer	This property contains the number of error information log entries over the life of the controller for the endurance group.
EthernetInterfaces	FileShare	object	A link to the collection of Ethernet interfaces that provide access to this file share.
ExecuteSupport	FileShare	boolean	Execute access is supported by the file share.
ExportedShares	FileSystem	object	An array of exported file shares of this file system.
ExposeVolumes (Action)	StorageGroup (Actions)	object	Expose the storage volumes of this group.
FailureDomainScope	DataProtectionLoSCapabilities (SupportedRecoveryGeographicObjectives)	string (enum)	Values of this enumeration represent a geographic scope of a failure domain.
Features	FeaturesRegistry	array	The set of SupportedFeatures defined in this registry.
FileProtocol	FileShare (FileSharingProtocols)	string (enum)	The file sharing protocols supported by the file system.

Property Name	Defined In Schema(s)	Type	Description
FileSharePath	FileShare	string	A path to an exported file or directory on the file system where this file share is hosted.
FileShareQuotaType	FileShare	string (enum)	Specifies the type of quota enforcement.
FileShareRemainingQuotaBytes	FileShare	integer (bytes)	The number of remaining bytes that may be used by this file share.
FileShareTotalQuotaBytes	FileShare	integer (bytes)	The maximum number of bytes that may be used by this file share.
FileSharingProtocols	FileShare	array	An array of file sharing protocols supported by this file share.
FileSystem	FileShare (Links)	object	A link to the file system containing the file share.
FileSystems	StorageService	object	FileSystems.
FirmwareVersion	NVMeFirmwareImage	string	The firmware version of the available NVMe firmware image.
ForceEnable (Action)	Volume (Actions)	object	Request system force the volume to an enabled state regardless of data loss.
FormattedLBASize	Volume (NVMeNamespaceProperties)	string	The LBA data size and metadata size combination that the namespace has been formatted with.
GuaranteedBytes	CapacitySource (ProvidedCapacity > Data), CapacitySource (ProvidedCapacity > Metadata), CapacitySource (ProvidedCapacity > Snapshot)	integer (bytes)	The number of bytes the storage system guarantees can be allocated in this data store for this data type.
HideVolumes (Action)	StorageGroup (Actions)	object	Hide the storage volumes of this group.

Property Name	Defined In Schema(s)	Type	Description
HostAuthenticationType	DataSecurity LineOfService	string (enum)	Authentication type for hosts (servers) or initiator endpoints.
HostingSystem	StorageService (Links)	object	The hosting system or storage controller hosting this storage service.
HostReadCommandCount	StoragePool (NVMeEn- duranceGroup- Properties > EndGrpLifetime)	integer	This property contains the number of read commands completed by all controllers in the NVM subsystem for the Endurance Group.
HostWriteCommandCount	StoragePool (NVMeEn- duranceGroup- Properties > EndGrpLifetime)	integer	This property contains the number of write commands completed by all controllers in the NVM subsystem for the Endurance Group.
Identifier	FileSystem (Identifiers), Volume (Identifiers)	object	Any additional identifiers for a resource.
	ClassOfService, DataProtection- LoS Capabilities, DataSecurityLoS Capabilities, DataStorageLoS Capabilities, IOConnectivity LoS Capabilities, IOPerformance- LoS Capabilities, StorageGroup, StoragePool, StorageService	object	The value identifies this resource.
Identifiers	Volume	array	The Durable names for the volume.

Property Name	Defined In Schema(s)	Type	Description
	FileSystem	array	The durable names for this file system.
ImportedShares	FileSystem	array	An array of imported file shares.
Initialize (Action)	Volume (Actions)	object	This action is used to prepare the contents of the volume for use by the system. If InitializeMethod is not specified in the request body, but the property InitializeMethod is specified, the property InitializeMethod value should be used. If neither is specified, the InitializeMethod should be Foreground.
InitializeMethod	Volume	string (enum)	Indicates the Initialization Method used for this volume. If InitializeMethod is not specified, the InitializeMethod should be Foreground.
	Volume (Actions > Initialize (Action))	string (enum)	The type of initialization to be performed.
InitializeType	Volume (Actions > Initialize (Action))	string (enum)	The type of initialization to be performed.
InitiatorCHAPPassword	StorageGroup (ChapInfo)	string	The shared secret for Mutual (2-way) CHAP authentication by the initiator.
InitiatorCHAPUser	StorageGroup (ChapInfo)	string	The Initiator username for Mutual (2-way) CHAP authentication by the initiator.
IOAccessPattern	IOPerformanceLoS Capabilities (Supporte-dIOWorkloads > Components)	string (enum)	Expected access pattern for this component.

Property Name	Defined In Schema(s)	Type	Description
IOConnectivity LinesOfService	ClassOfService	array	A collection of IOConnectivity line of service elements.
IOConnectivity LoS Capabilities	StorageService, StorageService (Links)	object	The IO connectivity capabilities of this service.
IOLimitingIsSupported	IOPerformanceLoS Capabilities	boolean	Limiting IOPS is supported.
IOOperationsPerSecondIsLimited	IOPerformance LineOfService	boolean	Limit the IOPS.
IOPerfModeEnabled	Volume	boolean	Indicates the IO performance mode setting for the volume.
IOPerformanceLinesOfService	ClassOfService	array	A collection of IOPerformance line of service elements.
IOPerformanceLoS Capabilities	StorageService, StorageService (Links)	object	The IO performance capabilities of this service.
IOStatistics	FileSystem	object	Statistics for this FileSystem.
	StoragePool	object	Statistics for this StoragePool.
	StorageService	object	Statistics for this StorageService.
	Volume	object	Statistics for this volume.
IOWorkload	IOPerformance LineOfService	object	A description of the expected workload.
IsBootCapable	Volume	boolean	This property indicates whether or not the Volume contains a boot image and is capable of booting.
IsConsistent	ConsistencyGroup	boolean	This value is true when the consistency group is in a consistent state.
IsIsolated	DataProtection LineOfService	boolean	The replica is in a separate fault domain.

Property Name	Defined In Schema(s)	Type	Description
IsShareable	Volume (NVMeNamespaceProperties)	boolean	Indicates the namespace is shareable.
IsSpaceEfficient	DataStorage LineOfService	boolean	True implies compression or deduplication of storage.
IsThinProvisioned	CapacitySource (ProvidedCapacity)	boolean	Marks that the capacity is not necessarily fully allocated.
JournalingMedia	Volume (Links)	object	A pointer to the Resource that serves as a journaling media for this volume.
KeySize	DataSecurityLoS Capabilities (SupportedChan-nelEncryption-Strengths), DataSecurityLoS Capabilities (SupportedMediaEncryptionStrengths)	string (enum)	Enumeration of Key sizes in a symmetric encryption algorithm, (see NIST SP 800-57 part 1 (http:/csrc.nist.gov/publications/nistpubs/800-57/sp800-57_part1_rev3_general.pdf).
Language	FeaturesRegistry	string	This is the RFC 5646 compliant language code for the registry.
LBAFormatsSupported	Volume (NVMeNamespaceProperties)	array	A list of the LBA format types supported for the namespace, or potential namespaces.
LBAFormatType	Volume (NVMeNamespaceProperties > LBAFormatsSupported)	string (enum)	LBAFormatType is defined in the NVMe specification set. This field indicates the LBA data size supported; implementations may report up to 16 values. For more details refer to the appropriate NVMe specification.
LinesOfService	StorageService	array	The LinesOService defined for this StorageService.

Property Name	Defined In Schema(s)	Type	Description
Links	ConsistencyGroup, DataProtection-LoS Capabilities, FileSystem, SpareResourceSet, StorageGroup, StorageService	object	Contains links to other resources that are related to this resource.
	Volume	object	Contains references to other resources that are related to this resource.
	FileShare, StoragePool	object	The links object contains the links to other resources that are related to this resource.
	NVMeDomain	object	The links to other resources that are related to this resource.
LocalDHCHAPAuthSecret	StorageGroup (DHChapInfo)	string	The local DHCHAP auth secret for DHCHAP authentication.
LogicalUnitNumber	Volume	integer	Indicates the host-visible LogicalUnitNumber assigned to this Volume.
	StorageGroup (MappedVolumes)	string	A SCSI Logical Unit Number for a Volume.
LowSpaceWarningThresholdPercents	FileShare	array (%)	An array of low space warning threshold percentages for the file share.
	FileSystem	array (%)	An array of low space warning threshold percentages for the file system.
	StoragePool	array (%)	Low space warning threshold specified in percents.
	Volume	array (%)	Low space warning.

Property Name	Defined In Schema(s)	Type	Description
Manufacturer	Volume	string	The manufacturer or OEM of this storage volume.
MappedVolumes	StorageGroup	array	Mapped Volumes in this storage group.
MaxBlockSizeBytes	Volume	integer (bytes)	Max Block size in bytes.
	StoragePool	integer (bytes)	Maximum Block size in bytes.
MaxBytesPerSecond	IOConnectivity LineOfService	integer (By/s)	The maximum Bandwidth in bytes per second that a connection can support.
MaxFileNameLength Bytes	FileSystem	integer (bytes)	A value indicating the maximum length of a file name within the file system.
MaximumCapacityPe rEndurance- GroupBytes	NVMeDomain	integer (bytes)	The maximum capacity per endurance group in bytes of this NVMe Domain.
MaximumRecoverabl eCapaci- tySource- Count	DataStorage LoS Capabilities	integer	Maximum number of capacity source resources for the purpose of recovery from a failure.
MaxIOOperationsPe rSecondPerT- erabyte	IOPerformance LineOfService	integer (1/s/TByte)	The amount of IOPS a volume of a given committed size can support.
MaxIOPS	IOConnectivity LineOfService	integer ([IO]/s)	The maximum supported IOs per second that the connection will support for the selected access protocol.
MaxSamplePeriod	IOPerformanceLoS Capabilities	string (seconds)	Maximum sampling period over which average values are calculated.

Property Name	Defined In Schema(s)	Type	Description
MaxSupportedBytes PerSecond	IOConnectivity LoS Capabilities	integer (By/s)	The maximum Bandwidth in bytes per second that a connection can support.
MaxSupportedIOPS	IOConnectivity LoS Capabilities	integer ([IO]/s)	The maximum IOPS that a connection can support.
MediaAndDataInteg rityError- Count	StoragePool (NVMeEn- duranceGroup- Properties > EndGrpLifetime)	integer	This property contains the number of occurences where the controller detected an unrecovered data integrity error for the Endurance Group.
MediaEncryptionSt rength	DataSecurity LineOfService	string (enum)	Key size for media encryption.
MediaSpanCount	Volume	integer	Indicates the number of media elements used per span in the secondary RAID for a hierarchical RAID type.
	Volume (Actions > ChangeRAIDLay- out (Action))	integer	The requested number of media elements used per span in the secondary RAID for a hierarchical RAID type.
MediaUnitsWritten	StoragePool (NVMeEn- duranceGroup- Properties > EndGrpLifetime)	integer	The property contains the total number of data units written from this endurance group.
Members	HostedStorageServices	array	The value of each member references a StorageService resource.
Members@odata.nex tLink	HostedStorageServices	string	The URI to the resource containing the next set of partial members.
MembersAreConsist ent	StorageGroup	boolean	Members are kept in a consistent state.
Metadata	CapacitySource (ProvidedCapacity)	object	The capacity information relating to metadata.

Property Name	Defined In Schema(s)	Type	Description
MetadataTransfer edAtEndOf- DataLBA	Volume (NVMeNamespaceProperties)	boolean	This property indicates whether or not the metadata is transferred at the end of the LBA creating an extended data LBA.
MinLifetime	DataProtection LineOfService	string	Minimum lifetime (seconds) that replica must be maintained.
MinSamplePeriod	IOPerformanceLoS Capabilities	string (seconds)	Minimum sampling period over which average values are calculated.
MinSupportedIoOpe rationLaten- cyMicrosec- onds	IOPerformanceLoS Capabilities	integer (us)	Minimum supported average IO latency.
Model	Volume	string	The model number for this storage volume.
NamespaceFeatures	Volume (NVMeNamespaceProperties)	object	This property contains a set of Namespace Features.
NamespaceId	Volume (NVMeNamespaceProperties)	string	The NVMe Namespace Identifier for this namespace.
NumberLBAFormats	Volume (NVMeNamespaceProperties)	integer (bytes)	The number of LBA data size and metadata size combinations supported by this namespace. The value of this property is between 0 and 16.
NVMeDeviceType	NVMeFirmwareImage	string (enum)	The type of NVMe Device this image is associated with.
NVMeEnduranceGrou pProperties	StoragePool	object	This property contains properties to use when StoragePool is used to describe an NVMe Endurance Group.
NVMeNamespaceProp erties	Volume	object	This property contains properties to use when Volume is used to describe an NVMe Namespace.

Property Name	Defined In Schema(s)	Type	Description
NVMePoolType	StoragePool (NVMeProperties)	string (enum)	Indicates whether the StoragePool is used as an EnduranceGroup or an NVMSet.
NVMeProperties	StoragePool	object	NVMe properties for this storage pool.
NVMeSetProperties	StoragePool	object	This property contains properties to use when StoragePool is used to describe an NVMe Set.
NVMeVersion	Volume (NVMeNamespaceProperties)	string	The version of the NVMe Base Specification supported.
OnHandLocation	SpareResourceSet	object	Location where this set of spares is kept.
OnHandSpares	SpareResourceSet (Links)	array	The type of resources in the set.
OnLine	SpareResourceSet	boolean	This set is available online.
OperationName	Volume (Operations)	string	The name of the operation.
Operations	Volume	array	The operations currently running on the Volume.
OptimalWriteSizeBytes	StoragePool (NVMeSetProperties)	integer (bytes)	This property contains the Optimal Write Size in Bytes for this NVMe Set.
OptimumIOSizeBytes	Volume	integer (bytes)	The size in bytes of this Volume's optimum IO size.
OwningEntity	FeaturesRegistry	string	This is the organization or company that publishes this registry.
OwningStorageResource	StoragePool (Links)	object	A pointer to the Storage resource that owns or contains this StoragePool.
	Volume (Links)	object	A pointer to the Storage resource that owns or contains this volume.
OwningStorageService	Volume (Links)	object	A pointer to the StorageService that owns or contains this volume.

Property Name	Defined In Schema(s)	Type	Description
ParentStorageGroups	StorageGroup (Links)	array	Parent StorageGroups.
PeerDHCHAPAuthSecret	StorageGroup (DHChapInfo)	string	The peer DHCHAP auth secret for DHCHAP authentication.
PercentageComplete	Volume (Operations)	integer	The percentage of the operation that has been completed.
PercentOfData	IOPerformanceLoS Capabilities (Supporte-dIOWorkloads > Components)	integer (%)	Percent of data for this workload component.
PercentOfIOPS	IOPerformanceLoS Capabilities (Supporte-dIOWorkloads > Components)	integer (%)	Percent of total IOPS for this workload component.
PercentUsed	StoragePool (NVMeEn-duranceGroup-Properties > EndGrpLifetime)	integer	A vendor-specific estimate of the percent life used for the endurance group based on the actual usage and the manufacturer prediction of NVM life.
PoolType	StoragePool	array	Pool usage type for this storage pool.
PredictedMediaLifeLeftPercent	EnduranceGroup (NVMeEnduranceGroupProperties)	number (%)	The percentage of reads and writes that are predicted to be available for the media.
ProvidedCapacity	CapacitySource	object	The amount of space that has been provided from the ProvidingDrives, ProvidingVolumes, ProvidingMemory or ProvidingPools.

Property Name	Defined In Schema(s)	Type	Description
ProvidedClassOfSe rvice	CapacitySource	object	The ClassOfService provided from the ProvidingDrives, ProvidingVolumes, ProvidingMemoryChunks, ProvidingMemory or ProvidingPools.
ProvidingDrives	CapacitySource	object	The drive or drives that provide this space.
ProvidingMemory	CapacitySource	object	The memory that provides this space.
ProvidingMemoryChunks	CapacitySource	object	The memory chunks that provide this space.
ProvidingPools	CapacitySource	object	The pool or pools that provide this space.
ProvidingVolumes	CapacitySource	object	The volume or volumes that provide this space.
ProvisionedBytes	CapacitySource (ProvidedCapac- ity > Data), CapacitySource (ProvidedCapac- ity > Metadata), CapacitySource (ProvidedCapac- ity > Snapshot)	integer (bytes)	The maximum number of bytes that can be allocated in this data store for this data type.
ProvisioningPolicy	DataStorage LineOfService	string (enum)	Provisioning policy for storage.
	DataStorage LoS Capabilities (SupportedProvi- sioningPolicies), StoragePool (SupportedProvisioningPolicies)	string (enum)	Space provisioning policy.

Property Name	Defined In Schema(s)	Type	Description
	Volume	string (enum)	This property specifies the volume's storage allocation, or provisioning policy.
RAIDType	Volume	string (enum)	The RAID type of this volume.
	Volume (Actions > ChangeRAIDLayout (Action))	string (enum)	The requested RAID type for the volume.
Random4kReadTypicalNanoSeconds	(NVMeSetProperties)	integer	Indicates the typical time to complete a 4k read in 100 nano-second units when the NVM Set is in a Predictable Latency Mode Deterministic Window and there is 1 outstanding command per NVM Set.
ReadCachePolicy	Volume	string (enum)	Indicates the read cache policy setting for the Volume.
RecoverableCapacitySource-Count	FileSystem, StoragePool, Volume	integer	Current number of capacity source resources that are available as replacements.
	DataStorage Line OfService	integer	Required minimum number of available capacity source resources.
RecoveryAccessScope	DataProtectionLoS Capabilities (SupportedRecovery-TimeObjectives), DataStorage LoS Capabilities (SupportedRecoveryTimeObjectives)	string (enum)	An enumeration that represents the relative time required to make a replica available as a source.
RecoveryGeographicObjective	DataProtection LineOfService	string (enum)	Geographic distribution scopes.
RecoveryPointObjectiveTime	DataProtection LineOfService	string	Time interval defining how much source data that can be lost on failure.

Property Name	Defined In Schema(s)	Type	Description
RecoveryTimeObjective	DataProtection LineOfService	string (enum)	An enumeration value that indicates the expected time to access an alternate replica.
RecoveryTimeObjectives	DataStorage LineOfService	string (enum)	Expectations for time to access the primary store after disaster recover.
Redundancy	StorageService	array	Redundancy information for the storage subsystem.
RegistryPrefix	FeaturesRegistry	string	This is the single word prefix used to form a Feature ID structure.
RegistryVersion	FeaturesRegistry	string	This is the feature registry version which is used in the middle portion of a Feature ID.
RemainingCapacity	FileSystem	object	Remaining capacity allocated to the file system.
RemainingCapacityPercent	FileShare	integer	The percentage of the capacity remaining in the FileShare.
	FileSystem	integer	The percentage of the capacity remaining in the FileSystem.
	StoragePool	integer	The percentage of the capacity remaining in the StoragePool.
	Volume	integer	The percentage of the capacity remaining in the Volume.
RemoveDrives (Action)	StoragePool (Actions)	object	This action is used to remove drive(s) from the capacity source for the StoragePool.
RemoveReplicaRelationship (Action)	ConsistencyGroup (Actions)	object	This action is used to disable data synchronization between a source and target consistency group, remove the replication relationship, and optionally delete the target consistency group.

Property Name	Defined In Schema(s)	Type	Description
	Volume (Actions)	object	This action is used to disable data synchronization between a source and target volume, remove the replication relationship, and optionally delete the target volume.
ReplacementSpare Sets	SpareResourceSet (Links)	array	Other spare sets that can be utilized to replenish this spare set.
ReplicaAccessLoca tion	DataProtection LineOfService	object	Location that supplies data access to the replica.
ReplicaClassOfSer vice	DataProtection LineOfService	object	The replica's class of service.
ReplicaCollection	FileSystem (Links)	array	An array of links to replicas for this file system.
ReplicaInfo	ConsistencyGroup, StorageGroup	object	Describes this storage group in its role as a target for replication.
	Volume	object	Describes this storage volume in its role as a target replica.
	FileSystem	object	This value describes the replica attributes if this file system is a replica.
Replica LineOfService	DataProtection LineOfService (Actions > CreateReplicas (Action))	object	The data protection line of service this action is bound to.
ReplicaName	DataProtection LineOfService (Actions > CreateReplicas (Action) > ReplicaRequests)	string	The name of the new replica.

Property Name	Defined In Schema(s)	Type	Description
ReplicaRequests	DataProtection LineOfService (Actions > CreateReplicas (Action))	array	Specifies the resources to replicate and a name for the replica.
ReplicaSource	DataProtection LineOfService (Actions > CreateReplicas (Action) > ReplicaRequests)	object	A resource to be replicated.
ReplicaTargets	ConsistencyGroup, FileSystem, StorageGroup, Volume	array	The resources that are target replicas of this source.
ReplicaType	ConsistencyGroup (Actions > Assign-ReplicaTarget (Action)), Consis-tencyGroup (Actions > Cre-ateReplicaTarget (Action))	string (enum)	The type of replica relationship to be created (e.g., Clone, Mirror, Snap).
	Volume (Actions > AssignReplicaTar-get (Action)), Volume (Actions > CreateReplicaTar-get (Action))	string (enum)	The type of replica relationship to be created.
	DataProtection LineOfService	string (enum)	Type of replica.
	DataProtectionLoS Capabilities (SupportedReplicaTypes)	string (enum)	Values of ReplicaType describe the intended outcome of the replication.

Property Name	Defined In Schema(s)	Type	Description
ReplicaUpdateMode	ConsistencyGroup (Actions > Assign-ReplicaTarget (Action)), Consistency-Group (Actions > Cre-ateReplicaTarget (Action)), Volume (Actions > Assign-ReplicaTarget (Action)), Volume (Actions > Cre-ateReplicaTarget (Action))	string (enum)	The replica update mode (synchronous vs asynchronous).
ResourceType	SpareResourceSet	string	The type of resources in the set.
ResumeReplication (Action)	ConsistencyGroup (Actions)	object	This action is used to resume the active data synchronization between a source and target consistency group, without otherwise altering the replication relationship.
	Volume (Actions)	object	This action is used to resume the active data synchronization between a source and target volume, without otherwise altering the replication relationship.
ReverseReplicationRelationship (Action)	ConsistencyGroup (Actions)	object	This action is used to reverse the replication relationship between a source and target consistency group.
	Volume (Actions)	object	This action is used to reverse the replication relationship between a source and target volume.

Property Name	Defined In Schema(s)	Type	Description
RootAccess	FileShare	boolean	Root access is allowed by the file share.
SamplePeriod	IOPerformance LineOfService	string	Sampling period over which average values are calculated.
Schedule	DataProtection LineOfService	object	A schedule for making periodic point in time replicas.
	IOPerformanceLoS Capabilities (Supporte- dIOWorkloads > Components)	object	Specifies when to apply this workload component.
SecureChannelProt ocol	DataSecurity LineOfService	string (enum)	Protocol that provide encrypted communication.
	DataSecurityLoS Capabilities (SupportedSecureChannelProtocols)	string (enum)	Types of Secure channel protocols.
ServerEndpointGro ups	StorageGroup	array	Groups of server endpoints in this storage group.
	StorageService	object	Server endpoint groups.
ServerEndpoints	Volume (Links)	array	An array of references to the server Endpoints associated with this volume.
SetCompressionSta te (Action)	StoragePool (Actions)	object	This action is used to set the compression state of the pool.
SetDeduplicationS tate (Action)	StoragePool (Actions)	object	This action is used to set the dedupe state of the pool.
SetEncryptionKey (Action)	StorageService (Actions)	object	This action is used to set the encryption key for the storage subsystem.
SetEncryptionState (Action)	StoragePool (Actions)	object	This action is used to set the encryption state of the pool.
SetIdentifier	StoragePool (NVMeSetProperties)	string	A 16-bit hex value that contains the NVMe Set group identifier.

Property Name	Defined In Schema(s)	Type	Description
Snapshot	CapacitySource (ProvidedCapacity)	object	The capacity information relating to snapshot or backup data.
SpareResourceSets	FileSystem (Links), StoragePool (Links), Volume (Links)	array	An array of references to SpareResourceSets.
	StorageService	array	An array of SpareResourceSets.
SplitReplication (Action)	ConsistencyGroup (Actions)	object	This action is used to split the replication relationship and suspend data synchronization between a source and target consistency group.
	Volume (Actions)	object	This action is used to split the replication relationship and suspend data synchronization between a source and target volume.
Status	FileShare	object	Indicates the status of the file share.
	ConsistencyGroup	object	The property contains the status of the ConsistencyGroup.
	StorageGroup	object	The property contains the status of the StorageGroup.
	StoragePool	object	The property contains the status of the StoragePool.
	StorageService	object	The property contains the status of the StorageService.
	Volume	object	The property contains the status of the Volume.
	NVMeDomain	object	The status and health of the resource and its subordinate or dependent resources.

Property Name	Defined In Schema(s)	Type	Description
StorageAccessCapability	DataStorage LineOfService (AccessCapabilities), DataStorage LoS Capabilities (SupportedAccessCapabilities), FileShare (DefaultAccessCapabilities), FileSystem (AccessCapabilities), Volume (AccessCapabilities)	string (enum)	Values of StorageAccessCapability describe abilities to read or write storage.
StorageGroups	Volume (Links)	array	An array of references to the StorageGroups associated with this volume.
	Volume	object	An array of references to Storage Groups that includes this volume.
	StorageService	object	StorageGroups.
StoragePools	StorageService	object	StoragePools.
StorageSubsystems	StorageService	object	A reference to storage subsystems managed by this storage service.
StripSizeBytes	Volume (Actions > ChangeRAIDLayout (Action))	integer	The number of blocks (bytes) requested for new strip size.
	Volume	integer (bytes)	The number of blocks (bytes) in a strip in a disk array that uses striped data mapping.
SupportedAccessCapabilities	DataStorage LoS Capabilities	array	Supported access capabilities.
SupportedAccessProtocols	Connectivity LoS Capabilities	array	SupportedAccessProtocols.

Property Name	Defined In Schema(s)	Type	Description
SupportedAntiviru sEngine providers	DataSecurityLoS Capabilities	array	Supported AntiVirus providers.
SupportedAntiviru sScan Policies	DataSecurityLoS Capabilities	array	Supported policies that trigger an AntiVirus scan.
SupportedChannelE ncryption- Strengths	DataSecurityLoS Capabilities	array	Supported key sizes for transport channel encryption.
SupportedDataSani tizationPoli- cies	DataSecurityLoS Capabilities	array	Supported data sanitization policies.
SupportedHostAuth entication- Types	DataSecurityLoS Capabilities	array	Supported authentication types for hosts (servers) or initiator endpoints.
SupportedIOWorkloads	IOPerformanceLoS Capabilities	array	A collection of supported workloads.
SupportedLinesOf Service	DataProtectionLoS Capabilities	array	Collection of known and supported DataProtectionLinesOfService.
	DataSecurityLoS Capabilities	array	Collection of known and supported DataSecurityLinesOfService.
	DataStorage LoS Capabilities	array	Collection of known and supported DataStorage LinesOfService.
	IOConnectivity LoS Capabilities	array	Collection of known and supported IOConnectivity LinesOfService.
	IOPerformanceLoS Capabilities	array	Collection of known and supported IOPerformanceLinesOfService.
SupportedMediaEnc ryption- Strengths	DataSecurityLoS Capabilities	array	Supported key sizes for media encryption.
SupportedMinLifet imes	DataProtectionLoS Capabilities	array	Supported minimum lifetime that replica must be maintained.
SupportedPoolTypes	StoragePool	array	A collection of the Pool Types supported by the storage pool.

Property Name	Defined In Schema(s)	Type	Description
SupportedProvisioningPolicies	DataStorage LoS Capabilities	array	Thin allows over allocation of storage.
	StoragePool	array	This collection specifies all supported storage allocation properties for the Storage Pool.
SupportedRAIDTypes	StoragePool	array	A collection of the RAID Types supported by the storage pool.
SupportedRecoveryGeographicObjectives	DataProtectionLoS Capabilities	array	Supported types of failure domains.
SupportedRecoveryPointObjectiveTimes	DataProtectionLoS Capabilities	array	Supported time intervals defining how much source information can be lost on failure.
SupportedRecoveryTimeObjectives	DataProtectionLoS Capabilities	array	Supported expectations for time to access an alternate replica.
	DataStorage LoS Capabilities	array	Supported expectations for time to access the primary store after recovery.
SupportedReplicaOptions	DataProtectionLoS Capabilities (Links)	array	Collection of known and supported replica Classes of Service.
SupportedReplicaTypes	DataProtectionLoS Capabilities	array	Supported replica types.
SupportedSecureChannelProtocols	DataSecurityLoS Capabilities	array	Supported protocols that provide encrypted communication.
SupportedUserAuthenticationTypes	DataSecurityLoS Capabilities	array	Supported authentication types for users (or programs).

Property Name	Defined In Schema(s)	Type	Description
SupportsAtomicTra nsactionSize	Volume (NVMeNames- paceProperties > NamespaceFeatures)	boolean	Indicates that the NVM fields for Namespace preferred write granularity (NPWG), write alignment (NPWA), deallocate granularity (NPDG), deallocate alignment (NPDA) and optimal write size (NOWS) are defined for this namespace and should be used by the host for I/O optimization.
SupportsDeallocat edOrUnwrit- tenLBError	Volume (NVMeNames- paceProperties > NamespaceFeatures)	boolean	This property indicates that the controller supports deallocated or unwritten logical block error for this namespace.
SupportsIOPerform anceHints	Volume (NVMeNames- paceProperties > NamespaceFeatures)	boolean	Indicates that the Namespace Atomic Write Unit Normal (NAWUN), Namespace Atomic Write Unit Power Fail (NAWUPF), and Namespace Atomic Compare and Write Unit (NACWU) fields are defined for this namespace and should be used by the host for this namespace instead of the controller-level properties AWUN, AWUPF, and ACWU.
SupportsIsolated	DataProtectionLoS Capabilities	boolean	Allocating a replica in a separate fault domain is supported.
SupportsNGUIDReuse	Volume (NVMeNames- paceProperties > NamespaceFeatures)	boolean	This property indicates that the namespace supports the use of an NGUID (namespace globally unique identifier) value.
SupportsSpaceEffi ciency	DataStorage LoS Capabilities	boolean	Allows compression or deduplication of storage.

Property Name	Defined In Schema(s)	Type	Description
SupportsThinProvisioning	Volume (NVMeNamespaceProperties > NamespaceFeatures)	boolean	This property indicates whether or not the NVMe Namespace supports thin provisioning.
SuspendReplication (Action)	ConsistencyGroup (Actions)	object	This action is used to suspend active data synchronization between a source and target consistency group, without otherwise altering the replication relationship.
	Volume (Actions)	object	This action is used to suspend active data synchronization between a source and target volume, without otherwise altering the replication relationship.
TargetCHAPPassword	StorageGroup (ChapInfo)	string	The Target CHAP Secret for Mutual (2-way) CHAP authentication by the target.
TargetCHAPUser	StorageGroup (ChapInfo)	string	The Target CHAP Username for Mutual (2-way) CHAP authentication by the target.

Property Name	Defined In Schema(s)	Type	Description
TargetConsistency Group	ConsistencyGroup (Actions > Assign-ReplicaTarget (Action)), Consistency Group (Actions > RemoveReplicaRelationship (Action)), Consistency Group (Actions > ResumeReplication (Action)), Consistency Group (Actions > ReverseReplicationRelationship (Action)), Consistency Group (Actions > SplitReplication (Action)), Consistency Group (Actions > SuspendReplication (Action))	string	The Uri to the existing target consistency group.
TargetPassword	StorageGroup (ChapInfo)	string	This property is deprecated in favor of TargetCHAPPassword.
TargetStoragePool	ConsistencyGroup (Actions > CreateReplicaTarget (Action)), Volume (Actions > CreateReplicaTarget (Action))	string	The Uri to the existing target Storage Pool.

Property Name	Defined In Schema(s)	Type	Description
TargetVolume	Volume (Actions > AssignReplicaTarget (Action)), Volume (Actions > RemoveReplicaRelationship (Action)), Volume (Actions > ResumeReplication (Action)), Volume (Actions > ReverseReplicationRelationship (Action)), Volume (Actions > SplitReplication (Action)), Volume (Actions > SuspendReplication (Action))	string	The Uri to the existing target volume.
TimeToProvision	SpareResourceSet	string	Amount of time needed to make an on-hand resource available as a spare.
TimeToReplenish	SpareResourceSet	string	Amount of time needed to get more on-hand resources.
TotalDomainCapacityBytes	NVMeDomain	integer (bytes)	The total capacity in bytes of this NVMe Domain.
UnallocatedDomainCapacity-Bytes	NVMeDomain	integer (bytes)	The total unallocated capacity in bytes of this NVMe Domain.
UnallocatedNVMNamespaceCapacityBytes	StoragePool (NVMeSetProperties)	integer (bytes)	Indicates the unallocated capacity of the NVMe Set in bytes.

Property Name	Defined In Schema(s)	Type	Description
UserAuthenticationType	DataSecurity LineOfService	string (enum)	Authentication type for users (or programs).
Vendor	NVMeFirmwareImage	string	The vendor or manufacturer associated with this NVMe firmware image.
Volume	StorageGroup (MappedVolumes)	object	A mapped Volume.
VolumeName	Volume (Actions > CreateReplicaTarget (Action))	string	The Name for the new target volume.
Volumes	ConsistencyGroup, StorageGroup	array	Volumes in this storage group.
	StorageService	object	Volumes.
VolumesAreExposed	StorageGroup	boolean	Storage volumes are exposed to paths defined by the client and server endpoints.
VolumeType	Volume	string (enum)	The type of this volume.
VolumeUsage	Volume	string (enum)	Indicates the Volume usage type setting for the Volume.
WriteCachePolicy	Volume	string (enum)	Indicates the write cache policy setting for the Volume.
WriteCacheState	Volume	string (enum)	Indicates the WriteCacheState policy setting for the Volume.
WriteHoleProtectionPolicy	Volume	string (enum)	The policy that the RAID volume is using to address the write hole issue.
WritePolicy	FileShare	string (enum)	Defines how writes are replicated to the shared source.