Swordfish Property Guide

Version: 1.2.6

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

SNIA Approved Publication

Publication of this Working Draft for review and comment has been approved by the Scalable Storage Management Technical Work Group. This draft represents a 'best effort' attempt by the Scalable Storage Management Technical Work Group to reach preliminary consensus, and it may be updated, replaced, or made obsolete at any time. This document should not be used as reference material or cited as other than a 'work in progress.' Suggestions for revision should be directed to http://www.snia.org/feedback.

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Current Revision

SNIA is actively engaged in expanding and refining the Swordfish documentation. The most current revision can be found on the SNIA web site at
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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
12 July 2022	1.2.4a	Release as SNIA Standard.
22 January 2024	1.2.6	Release as Working Draft
		Copyrights updated to 2024.

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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 summarized in Table 3 include:

Table 3: Property-level details

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

Column	Purpose
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.

2 Property Index

Property Name	Defined In Schema(s)	Type	Description
AccessCa pabilities	FileSystem	array	An array of supported IO access capabilities.
	DataSto rageLineOfService	array	Required access capabilities.
	Volume	array	Supported IO access capabilities.
Access Capability	StorageGroup (MappedVolumes)	s tring (enum)	Supported IO access capability.
Acces sProtocols	IOConnecti vityLineOfService	array	S upportedAccessProtocols.
A ccessState	StorageGroup	s tring (enum)	AccessState for this storage group.
Actions	*various* (CapacitySource, ClassOfService …)	o bject	The available actions for this resource.
AddDrives (Action)	StoragePool (Actions)	o bject	This action is used to add an additional drive, or set of drives, to a capacity source for the storage pool.
Allo catedBytes	CapacitySource (ProvidedCapacity > Data), CapacitySource (ProvidedCapacity > Metadata), CapacitySource (ProvidedCapacity > Snapshot)	in teger (b ytes)	The number of bytes currently allocated by the storage system in this data store for this data type.
Allo catedPools	StoragePool	o bject	A reference to the collection of storage pools allocated from this storage pool.
	Volume	o bject	An array of references to StoragePools allocated from this Volume.
Alloca tedVolumes	StoragePool	o bject	A reference to the collection of volumes allocated from this storage pool.
A ntivirusEngi neProvider	DataSecu rityLineOfService	s tring	AntiVirus provider.
• *AntivirusSc anPolicies**	DataSecu rityLineOfService	array	Policy for triggering an AntiVirus scan.

Property Name	Defined In Schema(s)	Type	Description
AntiVirusScanTrigger	DataSecurityLineOfService (AntivirusScanPolicies), DataSecurityLoSCapabilities (SupportedAntivirusScanPolicies)	string (enum)	Types of antivirus scan triggers.
AssignReplicaTarget (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.
AssociatedFeaturesRegistry	Volume (Operations)	object	A reference to the task associated with the operation if any.
AuthenticationMethod	StorageGroup	string (enum)	The Authentication method used for the Endpoints involved in this StorageGroup.
AuthenticationType	DataSecurityLoSCapabilities (SupportedHostAuthenticationTypes), DataSecurityLoSCapabilities (SupportedUserAuthenticationTypes)	string (enum)	Enumeration of authentication algorithms.
AvailableFirmwareImages	NVMeDomain	array	A collection of available firmware images.
AverageIOBytes	IOPerformanceLoSCapabilities (SupportedIOWorkloads > Components)	integer (bytes)	Average I/O Size for this component.
AverageIOOperationLatencyMicroseconds	IOPerformanceLineOfService	integer (us)	Expected average IO latency.

Property Name	Defined In Schema(s)	Type	Description
Bloc kSizeBytes	FileSystem	in teger (b ytes)	Block size of the file system in bytes.
	StoragePool	in teger (b ytes)	Maximum Block size in bytes.
	Volume	in teger (b ytes)	The size of the smallest addressable unit (Block) of this volume in bytes.
CacheD ataVolumes	Volume (Links)	array	A pointer to the data volumes this volume serves as a cache volume.
CacheVo lumeSource	Volume (Links)	o bject	A pointer to the cache volume source for this volume.
Capacity	FileSystem	o bject	Capacity allocated to the file system.
	StoragePool, Volume	o bject	Capacity utilization.
Cap acityBytes	Volume	in teger (b ytes)	The size in bytes of this Volume.
Capa citySource	StoragePool (Actions > AddDrives (Action))	o bject	The capacity source to be extended.
Capac itySources	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.
Cas ePreserved	FileSystem	bo olean	The case of file names is preserved by the file system.
Cas eSensitive	FileSystem	bo olean	Case sensitive file names are supported by the file system.
C ASupported	FileShare	bo olean	Continuous Availability is supported. Client/Server mediated recovery from network and server failure with application transparency.
Chan geRAIDLayout (Action)	Volume (Actions)	o bject	Request system change the RAID layout of the volume.
Cha nnelEncrypti onStrength	DataSecu rityLineOfService	s tring (enum)	Key size for transport channel encryption.

Property Name	Defined In Schema(s)	Type	Description
ChapInfo	StorageGroup	array	The credential information used to authenticate the endpoints in this StorageGroup.
CH APPassword	StorageGroup (ChapInfo)	s tring	The password for CHAP authentication.
CHAPUser	StorageGroup (ChapInfo)	s tring	The username for CHAP authentication.
Charac terCodeSet	FileSystem	array	An array of the character sets or encodings supported by the file system.
	FileSystem (CharacterCodeSet)	s tring (enum)	Supported character code standards for different alphabets and languages.
Chec kConsistency (Action)	Volume (Actions)	o bject	This action is used to force a check of the Volume's parity or redundant data to ensure it matches calculated values.
ChildSto rageGroups	StorageGroup (Links)	array	Child StorageGroups.
Classe sOfService	StoragePool	o bject	The ClassesOfService supported by this storage pool.
	StorageService	o bject	The ClassesOfService that all storage in this StorageService can support.
Clas sOfService	FileShare (Links)	o bject	A link to the ClassOfService for this file share.
	FileSystem (Links)	o bject	The ClassOfService of this file system.
	StorageGroup (Links)	o bject	The ClassOfService that all storage in this StorageGroup conforms to.
	Volume (Links)	o bject	The ClassOfService that this storage volume conforms to.
• *ClassOfServ iceVersion**	ClassOfService	s tring	The value identifies the current version of this class of service definition.
ClientEndp ointGroups	StorageGroup	array	Groups of client endpoints in this storage group.
	StorageService	o bject	Client endpoint groups.

Property Name	Defined In Schema(s)	Type	Description
Clien tEndpoints	Volume (Links)	array	An array of references to the client Endpoints associated with this volume.
Cluste rSizeBytes	FileSystem	in teger (b ytes)	A value indicating the minimum file allocation size imposed by the file system.
Components	IOPerforman ceLoSCapabilities (Supp ortedIOWorkloads)	array	An array of IO workload component descriptions.
Compressed	StoragePool	bo olean	Indicator of whether or not the StoragePool has compression enabled.
	Volume	bo olean	Indicator of whether or not the Volume has compression enabled.
Compress ionEnabled	StoragePool	bo olean	Indicates whether or not compression is enabled on the storage pool.
Consistenc yGroupName	ConsistencyGroup (Actions > Cr eateReplicaTarget (Action))	s tring	The Name for the new target consistency group.
Consist encyGroups	Volume (Links)	array	An array of references to the ConsistencyGroups associated with this volume.
	StorageService	o bject	ConsistencyGroups.
Consist encyMethod	ConsistencyGroup	s tring (enum)	The consistency method used by this group.
Consi stencyType	ConsistencyGroup	s tring (enum)	The consistency type used by this group.
Con sumedBytes	CapacitySource (ProvidedCapacity > Data), CapacitySource (ProvidedCapacity > Metadata), CapacitySource (ProvidedCapacity > Snapshot)	in teger (b ytes)	The number of bytes consumed in this data store for this data type.
Correspo ndingProfile Definition	FeaturesRegistry (Features)	s tring	The profile definition that defines the feature.

Property Name	Defined In Schema(s)	Type	Description
Cr eateReplicas (Action)	DataProtec tionLineOfService (Actions)	o bject	This action creates an on-demand replica.
CreateR eplicaTarget (Action)	ConsistencyGroup (Actions)	o bject	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)	o bject	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)	o bject	The capacity information relating to the user data.
DataPr otectionLine sOfService	ClassOfService	array	A collection of DataProtection line of service elements.
DataPro tectionLoSCa pabilities	StorageService, StorageService (Links)	o bject	The data protection capabilities of this service.
DataSanitiza tionPolicy	DataSecu rityLineOfService	s tring (enum)	Data sanitization policy.
	DataSecuri tyLoSCapabilities (SupportedDataSani tizationPolicies)	s tring (enum)	Types of data sanitization policies.
Data SecurityLine sOfService	ClassOfService	array	A collection of DataSecurity line of service elements.
DataS ecurityLoSCa pabilities	StorageService, StorageService (Links)	o bject	The data security capabilities of this service.
Dat aStorageLine sOfService	ClassOfService	array	A collection of DataStorage line of service elements.
Data StorageLoSCa pabilities	StorageService, StorageService (Links)	o bject	The data storage capabilities of this service.
Dat aUnitsRead	StoragePool (NVMeEnduran ceGroupProperties > EndGrpLifetime)	in teger	The property contains the total number of data units read from this endurance group.

Property Name	Defined In Schema(s)	Type	Description
DataUn itsWritten	StoragePool (NVMeEnduran ceGroupProperties > EndGrpLifetime)	in teger	The property contains the total number of data units written from this endurance group.
DedicatedS pareDrives	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.
De duplicated	StoragePool	bo olean	Indicator of whether or not the StoragePool has deduplication enabled.
	Volume	bo olean	Indicator of whether or not the Volume has deduplication enabled.
Deduplicat ionEnabled	StoragePool	bo olean	Indicates whether or not deduplication is enabled on the storage pool.
Def aultAccessCa pabilities	FileShare	array	An array of default access capabilities for the file share. The types of default access can include Read, Write, and/or Execute.
• *DefaultClas sOfService**	StorageService, StorageService (Links)	o bject	The default class of service for entities allocated by this storage service.
	StoragePool, StoragePool (Links)	o bject	The default class of service for entities allocated from this storage pool.
Defa ultCompressi onBehavior	StoragePool	bo olean	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.

Property Name	Defined In Schema(s)	Type	Description
Defaul tDeduplicati onBehavior	StoragePool	bo olean	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.
Def aultEncrypti onBehavior	StoragePool	bo olean	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.
Delete TargetConsis tencyGroup	ConsistencyGroup (Actions > RemoveRe plicaRelationship (Action))	bo olean	Indicate whether or not to delete the target consistency group as part of the operation.
DeleteTa rgetVolume	Volume (Actions > RemoveRe plicaRelationship (Action))	bo olean	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.
D isplayName	Volume	s tring	A user-configurable string to name the volume.
Dom ainMembers	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	o bject	The set of drives managed by this storage service.

Property Name	Defined In Schema(s)	Type	Description
Duration	IOPerformanceLoSCapabilities (SupportedIOWorkloads > Components)	string (seconds)	Duration that this component is active.
Enable	StoragePool (Actions > SetCompressionState (Action))	boolean	This property indicates the desired compression state of the storage pool.
	StoragePool (Actions > SetDeduplicationState (Action))	boolean	This property indicates the desired deduplication state of the storage pool.
	StoragePool (Actions > SetEncryptionState (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 > SetEncryptionKey (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.
Endpointgroups	StorageService	object	Client and Server endpoint groups.
• *Endpoints**	StorageService	object	Endpoints.
EnduranceEstimate	StoragePool (NVMeEnduranceGroupProperties > 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.

Property Name	Defined In Schema(s)	Type	Description
ErrorInformationLogEntryCount	StoragePool (NVMeEnduranceGroupProperties > 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.
FeatureName	FeaturesRegistry (Features)	string	The Name of the feature.
Features	FeaturesRegistry	array	The pattern property indicates that a free-form string is the unique identifier for the feature within the registry.
FileProtocol	FileShare (FileSharingProtocols)	string (enum)	The file sharing protocols supported by the file system.
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.

Property Name	Defined In Schema(s)	Type	Description
FileSystem	FileShare (Links)	o bject	A link to the file system containing the file share.
F ileSystems	StorageService	o bject	FileSystems.
Firmw areVersion	NVMeFirmwareImage	s tring	The firmware version of the available NVMe firmware image.
• *ForceEnable (Action)**	Volume (Actions)	o bject	Request system force the volume to an enabled state regardless of data loss.
Format tedLBASize	Volume (NVMeNam espaceProperties)	s tring	The LBA data size and metadata size combination that the namespace has been formatted with.
Guara nteedBytes	CapacitySource (ProvidedCapacity > Data), CapacitySource (ProvidedCapacity > Metadata), CapacitySource (ProvidedCapacity > Snapshot)	in teger (b ytes)	The number of bytes the storage system guarantees can be allocated in this data store for this data type.
• *HideVolumes (Action)**	StorageGroup (Actions)	o bject	Hide the storage volumes of this group.
HostAuthenti cationType	DataSecu rityLineOfService	s tring (enum)	Authentication type for hosts (servers) or initiator endpoints.
Hos tingSystem	StorageService (Links)	o bject	The hosting system or storage controller hosting this storage service.
HostReadCo mmandCount	StoragePool (NVMeEnduran ceGroupProperties > EndGrpLifetime)	in teger	This property contains the number of read commands completed by all controllers in the NVM subsystem for the Endurance Group.
• *HostWriteCo mmand-Count**	StoragePool (NVMeEnduran ceGroupProperties > EndGrpLifetime)	in teger	This property contains the number of write commands completed by all controllers in the NVM subsystem for the Endurance Group.

Property Name	Defined In Schema(s)	Type	Description
Identifier	FileSystem (Identifiers), Volume (Identifiers)	o bject	Any additional identifiers for a resource.
	ClassOfService, DataProtectio nLoSCapabilities, DataSecurit yLoSCapabilities, DataStorag eLoSCapabilities, IOConnectivit yLoSCapabilities, IOPerformanc eLoSCapabilities, StorageGroup, StoragePool, StorageService	o bject	The value identifies this resource.
I dentifiers	Volume	array	The Durable names for the volume.
	FileSystem	array	The durable names for this file system.
Impo rtedShares	FileSystem	array	An array of imported file shares.
Initialize (Action)	Volume (Actions)	o bject	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.
Initia lizeMethod	Volume	s tring (enum)	Indicates the Initialization Method used for this volume. If InitializeMethod is not specified, the InitializeMethod should be Foreground.
	Volume (Actions > Initialize (Action))	s tring (enum)	The type of initialization to be performed.
Init ializeType	Volume (Actions > Initialize (Action))	s tring (enum)	The type of initialization to be performed.

Property Name	Defined In Schema(s)	Type	Description
• *InitiatorCHAPPassword**	StorageGroup (ChapInfo)	s tring	The shared secret for Mutual (2-way) CHAP authentication by the initiator.
Initiat orCHAPUser	StorageGroup (ChapInfo)	s tring	The Initiator username for Mutual (2-way) CHAP authentication by the initiator.
IOAcc essPattern	IOPerforman ceLoSCapabilities (Sup portedIOWorkloads > Components)	s tring (enum)	Expected access pattern for this component.
IOConn ectivityLine sOfService	ClassOfService	array	A collection of IOConnectivity line of service elements.
IOConne ctivityLoSCa pabilities	StorageService, StorageService (Links)	o bject	The IO connectivity capabilities of this service.
• *IOLimitingI sSupported**	IOPerforman ceLoSCapabilities	bo olean	Limiting IOPS is supported.
IOOperat ionsPerSecon dIsLimited	IOPerform anceLineOfService	bo olean	Limit the IOPS.
IOPerfM odeEnabled	Volume	bo olean	Indicates the IO performance mode setting for the volume.
IOPer formanceLine sOfService	ClassOfService	array	A collection of IOPerformance line of service elements.
IOPerf ormanceLoSCa pabilities	StorageService, StorageService (Links)	o bject	The IO performance capabilities of this service.
IO Statistics	FileSystem	o bject	Statistics for this FileSystem.
	StoragePool	o bject	Statistics for this StoragePool.
	StorageService	o bject	Statistics for this StorageService.
	Volume	o bject	Statistics for this volume.

Property Name	Defined In Schema(s)	Type	Description
IOWorkload	IOPerform anceLineOfService	o bject	A description of the expected workload.
IsB ootCapable	Volume	bo olean	This property indicates whether or not the Volume contains a boot image and is capable of booting.
Is Consistent	ConsistencyGroup	bo olean	This value is true when the consistency group is in a consistent state.
IsIsolated	DataProtec tionLineOfService	bo olean	The replica is in a separate fault domain.
I sShareable	Volume (NVMeNam espaceProperties)	bo olean	Indicates the namespace is shareable.
IsSpac eEfficient	DataSto rageLineOfService	bo olean	True implies compression or deduplication of storage.
IsThinP rovisioned	CapacitySource (ProvidedCapacity)	bo olean	Marks that the capacity is not necessarily fully allocated.
Journ alingMedia	Volume (Links)	o bject	A pointer to the Resource that serves as a journaling media for this volume.
KeySize	DataSecuri tyLoSCapabilities (Sup portedChannelEncr yptionStrengths), DataSecuri tyLoSCapabilities (SupportedMediaEnc ryptionStrengths)	s tring (enum)	Enumeration of Key sizes in a symmetric encryption algorithm, (see NIST SP 800-57 part 1 (http:/csrc.ni st.gov/publications/nist pubs/800-57/sp800-57_pa rt1_rev3_general.pdf).
Language	FeaturesRegistry	s tring	This is the RFC 5646 compliant language code for the registry.
LBAFormat sSupported	Volume (NVMeNam espaceProperties)	array	A list of the LBA format types supported for the namespace, or potential namespaces.
LBA FormatType	Volume (NVMeNa mespaceProperties > LBA FormatsSupported)	s tring (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.
Line sOfService	StorageService	array	The LinesOService defined for this StorageService.

Property Name	Defined In Schema(s)	Type	Description
Links	ConsistencyGroup, DataProtectio nLoSCapabilities, FileSystem, SpareResourceSet, StorageGroup, StorageService	o bject	Contains links to other resources that are related to this resource.
	Volume	o bject	Contains references to other resources that are related to this resource.
	FileShare, StoragePool	o bject	The links object contains the links to other resources that are related to this resource.
	NVMeDomain	o bject	The links to other resources that are related to this resource.
• *LocalDHCHAP AuthSecret**	StorageGroup (DHChapInfo)	s tring	The local DHCHAP auth secret for DHCHAP authentication.
Logical UnitNumber	Volume	in teger	Indicates the host-visible LogicalUnitNumber assigned to this Volume.
	StorageGroup (MappedVolumes)	s tring	A SCSI Logical Unit Number for a Volume.
LowSpaceWa rningThresho ldPercents	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.
Ma nufacturer	Volume	s tring	The manufacturer or OEM of this storage volume.
Map pedVolumes	StorageGroup	array	Mapped Volumes in this storage group.
MaxBloc kSizeBytes	Volume	in teger (b ytes)	Max Block size in bytes.

Property Name	Defined In Schema(s)	Type	Description
	StoragePool	in teger (b ytes)	Maximum Block size in bytes.
MaxByte sPerSecond	IOConnecti vityLineOfService	in teger (By/s)	The maximum Bandwidth in bytes per second that a connection can support.
MaxFileNameL engthBytes	FileSystem	in teger (b ytes)	A value indicating the maximum length of a file name within the file system.
Max imumCapacity PerEndurance GroupBytes	NVMeDomain	in teger (b ytes)	The maximum capacity per endurance group in bytes of this NVMe Domain.
Max imumRecovera bleCapacityS ourceCount	DataStora geLoSCapabilities	in teger	Maximum number of capacity source resources for the purpose of recovery from a failure.
M axIOOperatio nsPerSecondP erTerabyte	IOPerform anceLineOfService	in teger (1/s /TBy)	The amount of IOPS a volume of a given committed size can support.
MaxIOPS	IOConnecti vityLineOfService	in teger ([IO]/s)	The maximum supported IOs per second that the connection will support for the selected access protocol.
MaxSa mplePeriod	IOPerforman ceLoSCapabilities	s tring (sec onds)	Maximum sampling period over which average values are calculated.
MaxS upportedByte sPerSecond	IOConnectivi tyLoSCapabilities	in teger (By/s)	The maximum Bandwidth in bytes per second that a connection can support.
MaxSup portedIOPS	IOConnectivi tyLoSCapabilities	in teger ([IO]/s)	The maximum IOPS that a connection can support.
MediaAndD ataIntegrity ErrorCount	StoragePool (NVMeEnduran ceGroupProperties > EndGrpLifetime)	in teger	This property contains the number of occurences where the controller detected an unrecovered data integrity error for the Endurance Group.
M ediaEncrypti onStrength	DataSecu rityLineOfService	s tring (enum)	Key size for media encryption.
Medi aSpanCount	Volume	in teger	Indicates the number of media elements used per span in the secondary RAID for a hierarchical RAID type.

Property Name	Defined In Schema(s)	Type	Description
	Volume (Actions > ChangeRAIDLayout (Action))	in teger	The requested number of media elements used per span in the secondary RAID for a hierarchical RAID type.
MediaUn itsWritten	StoragePool (NVMeEnduran ceGroupProperties > EndGrpLifetime)	in teger	The property contains the total number of data units written from this endurance group.
Members	Host edStorageServices	array	The value of each member references a StorageService resource.
M embers@odat a.nextLink	Host edStorageServices	s tring	The URI to the resource containing the next set of partial members.
MembersAre Consistent	StorageGroup	bo olean	Members are kept in a consistent state.
Metadata	CapacitySource (ProvidedCapacity)	o bject	The capacity information relating to metadata.
• *MetadataTra nsferredAtEn dOfDataLBA**	Volume (NVMeNam espaceProperties)	bo olean	This property indicates whether or not the metadata is transferred at the end of the LBA creating an extended data LBA.
M inLifetime	DataProtec tionLineOfService	s tring	Minimum lifetime (seconds) that replica must be maintained.
MinSa mplePeriod	IOPerforman ceLoSCapabilities	s tring (sec onds)	Minimum sampling period over which average values are calculated.
MinSuppo rtedIoOperat ionLatencyMi croseconds	IOPerforman ceLoSCapabilities	in teger (us)	Minimum supported average IO latency.
Model	Volume	s tring	The model number for this storage volume.
Namespa ceFeatures	Volume (NVMeNam espaceProperties)	o bject	This property contains a set of Namespace Features.
N amespaceId	Volume (NVMeNam espaceProperties)	s tring	The NVMe Namespace Identifier for this namespace.

Property Name	Defined In Schema(s)	Type	Description
Number LBAFormats	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.
NVMe DeviceType	NVMeFirmwareImage	string (enum)	The type of NVMe Device this image is associated with.
NVMeEnduranceGroup Properties	StoragePool	object	This property contains properties to use when StoragePool is used to describe an NVMe Endurance Group.
NVMeNamespace Properties	Volume	object	This property contains properties to use when Volume is used to describe an NVMe Namespace.
NVMePoolType	StoragePool (NVMeProperties)	string (enum)	Indicates whether the StoragePool is used as an EnduranceGroup or an NVMSet.
NVMe Properties	StoragePool	object	NVMe properties for this storage pool.
NVMeSet Properties	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.

Property Name	Defined In Schema(s)	Type	Description
Ow ningEntity	FeaturesRegistry	s tring	This is the organization or company that publishes this registry.
• *OwningStora geResource**	StoragePool (Links)	o bject	A pointer to the Storage resource that owns or contains this StoragePool.
	Volume (Links)	o bject	A pointer to the Storage resource that owns or contains this volume.
OwningStor ageService	Volume (Links)	o bject	A pointer to the StorageService that owns or contains this volume.
ParentSto rageGroups	StorageGroup (Links)	array	Parent StorageGroups.
PeerDHCHAP AuthSecret	StorageGroup (DHChapInfo)	s tring	The peer DHCHAP auth secret for DHCHAP authentication.
Percenta geComplete	Volume (Operations)	in teger	The percentage of the operation that has been completed.
Per centOfData	IOPerforman ceLoSCapabilities (Sup portedIOWorkloads > Components)	in teger (%)	Percent of data for this workload component.
Per centOfIOPS	IOPerforman ceLoSCapabilities (Sup portedIOWorkloads > Components)	in teger (%)	Percent of total IOPS for this workload component.
P ercentUsed	StoragePool (NVMeEnduran ceGroupProperties > EndGrpLifetime)	in teger	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.
Predict edMediaLifeL eftPercent	StoragePool (NVMeEnduranc eGroupProperties)	n umber (%)	The percentage of reads and writes that are predicted to be available for the media.
Provid edCapacity	CapacitySource	o bject	The amount of space that has been provided from the ProvidingDrives, ProvidingVolumes, ProvidingMemory or ProvidingPools.

Property Name	Defined In Schema(s)	Type	Description
ProvidedClassOfService	CapacitySource	o bject	The ClassOfService provided from the ProvidingDrives, ProvidingVolumes, ProvidingMemoryChunks, ProvidingMemory or ProvidingPools.
Provi dingDrives	CapacitySource	o bject	The drive or drives that provide this space.
Provi dingMemory	CapacitySource	o bject	The memory that provides this space.
• *ProvidingMemoryChunks**	CapacitySource	o bject	The memory chunks that provide this space.
Prov idingPools	CapacitySource	o bject	The pool or pools that provide this space.
Provid ingVolumes	CapacitySource	o bject	The volume or volumes that provide this space.
Provis ionedBytes	CapacitySource (ProvidedCapacity > Data), CapacitySource (ProvidedCapacity > Metadata), CapacitySource (ProvidedCapacity > Snapshot)	in teger (b ytes)	The maximum number of bytes that can be allocated in this data store for this data type.
Provisio ningPolicy	DataSto rageLineOfService	s tring (enum)	Provisioning policy for storage.
	DataStora geLoSCapabilities (SupportedProvisioningPolicies), StoragePool (SupportedProvisioningPolicies)	s tring (enum)	Space provisioning policy.
	Volume	s tring (enum)	This property specifies the volume's storage allocation, or provisioning policy.
RAIDType	Volume	s tring (enum)	The RAID type of this volume.
	Volume (Actions > ChangeRAIDLayout (Action))	s tring (enum)	The requested RAID type for the volume.

Property Name	Defined In Schema(s)	Type	Description
Random4k ReadTypicalN anoSeconds	StoragePool (N VMeSetProperties)	in teger	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.
ReadC achePolicy	Volume	s tring (enum)	Indicates the read cache policy setting for the Volume.
Recovera bleCapacityS ourceCount	FileSystem, StoragePool, Volume	in teger	Current number of capacity source resources that are available as replacements.
	DataSto rageLineOfService	in teger	Required minimum number of available capacity source resources.
RecoveryA ccessScope	DataProtecti onLoSCapabilities (SupportedRecover yTimeObjectives), DataStora geLoSCapabilities (SupportedRecove ryTimeObjectives)	s tring (enum)	An enumeration that represents the relative time required to make a replica available as a source.
Recov eryGeographi cObjective	DataProtec tionLineOfService	s tring (enum)	Geographic distribution scopes.
Reco veryPointObj ectiveTime	DataProtec tionLineOfService	s tring	Time interval defining how much source data that can be lost on failure.
• *RecoveryTim eObjective**	DataProtec tionLineOfService	s tring (enum)	An enumeration value that indicates the expected time to access an alternate replica.
RecoveryTime Objectives	DataSto rageLineOfService	s tring (enum)	Expectations for time to access the primary store after disaster recover.
Redundancy	StorageService	array	Redundancy information for the storage subsystem.
Regi stryPrefix	FeaturesRegistry	s tring	This is the single word prefix used to form a Feature ID structure.

Property Name	Defined In Schema(s)	Type	Description
Regis tryVersion	FeaturesRegistry	s tring	This is the feature registry version which is used in the middle portion of a Feature ID.
Remaini ngCapacity	FileSystem	o bject	Remaining capacity allocated to the file system.
Re mainingCapac ityPercent	FileShare	in teger	The percentage of the capacity remaining in the FileShare.
	FileSystem	in teger	The percentage of the capacity remaining in the FileSystem.
	StoragePool	in teger	The percentage of the capacity remaining in the StoragePool.
	Volume	in teger	The percentage of the capacity remaining in the Volume.
RemoteRepl icaTargets	ConsistencyGroup, Volume	array	URIs to the resources that are remote target replicas of this source.
RemoveDrives (Action)	StoragePool (Actions)	o bject	This action is used to remove drive(s) from the capacity source for the StoragePool.
R emoveReplica Relationship (Action)	ConsistencyGroup (Actions)	o bject	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.
	Volume (Actions)	o bject	This action is used to disable data synchronization between a source and target volume, remove the replication relationship, and optionally delete the target volume.
Replacemen tSpareSets	SpareResourceSet (Links)	array	Other spare sets that can be utilized to replenish this spare set.
• *ReplicaAcce ssLocation**	DataProtec tionLineOfService	o bject	Location that supplies data access to the replica.

Property Name	Defined In Schema(s)	Type	Description
• *ReplicaClassOfService**	DataProtectionLineOfService	o bject	The replica's class of service.
Replica Collection	FileSystem (Links)	array	An array of links to replicas for this file system.
R eplicaInfo	ConsistencyGroup, StorageGroup	o bject	Describes this storage group in its role as a target for replication.
	Volume	o bject	Describes this storage volume in its role as a target replica.
	FileSystem	o bject	This value describes the replica attributes if this file system is a replica.
ReplicaLineOfService	DataProtectionLineOfService (Actions > CreateReplicas (Action))	o bject	The data protection line of service this action is bound to.
R eplicaName	DataProtectionLineOfService (Actions > CreateReplicas (Action) > ReplicaRequests)	s tring	The name of the new replica.
Repli caRequests	DataProtectionLineOfService (Actions > CreateReplicas (Action))	array	Specifies the resources to replicate and a name for the replica.
Rep licaSource	DataProtectionLineOfService (Actions > CreateReplicas (Action) > ReplicaRequests)	o bject	A resource to be replicated.
Repl icaTargets	ConsistencyGroup, FileSystem, StorageGroup, Volume	array	The resources that are target replicas of this source.
R eplicaType	ConsistencyGroup (Actions > As signReplicaTarget (Action)), ConsistencyGroup (Actions > Cr eateReplicaTarget (Action))	s tring (enum)	The type of replica relationship to be created (e.g., Clone, Mirror, Snap).

Property Name	Defined In Schema(s)	Type	Description
	Volume (Actions > As signReplicaTarget (Action)), Volume (Actions > Cr eateReplicaTarget (Action))	s tring (enum)	The type of replica relationship to be created.
	DataProtec tionLineOfService	s tring (enum)	Type of replica.
	DataProtecti onLoSCapabilities (Suppo rtedReplicaTypes)	s tring (enum)	Values of ReplicaType describe the intended outcome of the replication.
Replica UpdateMode	ConsistencyGroup (Actions > As signReplicaTarget (Action)), ConsistencyGroup (Actions > Cr eateReplicaTarget (Action)), Volume (Actions > As signReplicaTarget (Action)), Volume (Actions > Cr eateReplicaTarget (Action))	s tring (enum)	The replica update mode (synchronous vs asynchronous).
Re sourceType	SpareResourceSet	s tring	The type of resources in the set.
Resum eReplication (Action)	ConsistencyGroup (Actions)	o bject	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)	o bject	This action is used to resume the active data synchronization between a source and target volume, without otherwise altering the replication relationship.
Revers eReplication Relationship (Action)	ConsistencyGroup (Actions)	o bject	This action is used to reverse the replication relationship between a source and target consistency group.
	Volume (Actions)	o bject	This action is used to reverse the replication relationship between a source and target volume.
RootAccess	FileShare	bo olean	Root access is allowed by the file share.

Property Name	Defined In Schema(s)	Type	Description
Sa mplePeriod	IOPerform anceLineOfService	s tring	Sampling period over which average values are calculated.
Schedule	DataProtec tionLineOfService	o bject	A schedule for making periodic point in time replicas.
	IOPerforman ceLoSCapabilities (Sup portedIOWorkloads > Components)	o bject	Specifies when to apply this workload component.
• *SecureChann elProtocol**	DataSecu rityLineOfService	s tring (enum)	Protocol that provide encrypted communication.
	DataSecuri tyLoSCapabilities (SupportedSecure ChannelProtocols)	s tring (enum)	Types of Secure channel protocols.
ServerEndp ointGroups	StorageGroup	array	Groups of server endpoints in this storage group.
	StorageService	o bject	Server endpoint groups.
Serve rEndpoints	Volume (Links)	array	An array of references to the server Endpoints associated with this volume.
SetComp ressionState (Action)	StoragePool (Actions)	o bject	This action is used to set the compression state of the pool.
SetDedupl icationState (Action)	StoragePool (Actions)	o bject	This action is used to set the dedupe state of the pool.
SetE ncryptionKey (Action)	StorageService (Actions)	o bject	This action is used to set the encryption key for the storage subsystem.
SetEnc ryptionState (Action)	StoragePool (Actions)	o bject	This action is used to set the encryption state of the pool.
Set Identifier	StoragePool (N VMeSetProperties)	s tring	A 16-bit hex value that contains the NVMe Set group identifier.

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

Property Name	Defined In Schema(s)	Type	Description
S torageAccess Capability	DataSto rageLineOfService (Acc essCapabilities), DataStora geLoSCapabilities (SupportedAcc essCapabilities), FileShare (DefaultAcc essCapabilities), FileSystem (Acc essCapabilities), Volume (Ac cessCapabilities)	s tring (enum)	Values of StorageAccessCapability describe abilities to read or write storage.
Sto rageGroups	Volume (Links)	array	An array of references to the StorageGroups associated with this volume.
	Volume	o bject	An array of references to Storage Groups that includes this volume.
	StorageService	o bject	StorageGroups.
St oragePools	StorageService	o bject	StoragePools.
Storage Subsystems	StorageService	o bject	A reference to storage subsystems managed by this storage service.
Stri pSizeBytes	Volume (Actions > ChangeRAIDLayout (Action))	in teger	The number of blocks (bytes) requested for new strip size.
	Volume	in teger (b ytes)	The number of blocks (bytes) in a strip in a disk array that uses striped data mapping.
Suppo rtedAccessCa pabilities	DataStora geLoSCapabilities	array	Supported access capabilities.
Su pportedAcces sProtocols	IOConnectivi tyLoSCapabilities	array	S upportedAccessProtocols.
• *SupportedAn tivirusEngin eProviders**	DataSecuri tyLoSCapabilities	array	Supported AntiVirus providers.
Supporte dAntivirusSc anPolicies	DataSecuri tyLoSCapabilities	array	Supported policies that trigger an AntiVirus scan.

Property Name	Defined In Schema(s)	Type	Description
S upportedChan nelEncryptio nStrengths	DataSecuri tyLoSCapabilities	array	Supported key sizes for transport channel encryption.
• *SupportedDa taSanitizati onPolicies**	DataSecuri tyLoSCapabilities	array	Supported data sanitization policies.
SupportedH ostAuthentic ationTypes	DataSecuri tyLoSCapabilities	array	Supported authentication types for hosts (servers) or initiator endpoints.
SupportedI OWorkloads	IOPerforman ceLoSCapabilities	array	A collection of supported workloads.
S upportedLine sOfService	DataProtecti onLoSCapabilities	array	Collection of known and supported DataP rotectionLinesOfService.
	DataSecuri tyLoSCapabilities	array	Collection of known and supported Dat aSecurityLinesOfService.
	DataStora geLoSCapabilities	array	Collection of known and supported Da taStorageLinesOfService.
	IOConnectivi tyLoSCapabilities	array	Collection of known and supported IOCon nectivityLinesOfService.
	IOPerforman ceLoSCapabilities	array	Collection of known and supported IOPe rformanceLinesOfService.
• *SupportedMe diaEncryptio nStrengths**	DataSecuri tyLoSCapabilities	array	Supported key sizes for media encryption.
• *SupportedMi nLifetimes**	DataProtecti onLoSCapabilities	array	Supported minimum lifetime that replica must be maintained.
Supporte dPoolTypes	StoragePool	array	A collection of the Pool Types supported by the storage pool.
Support edProvisioni ngPolicies	DataStora geLoSCapabilities	array	Thin allows over allocation of storage.

Property Name	Defined In Schema(s)	Type	Description
	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	DataProtectionLoSCapabilities	array	Supported types of failure domains.
SupportedRecoveryPointObjectiveTimes	DataProtectionLoSCapabilities	array	Supported time intervals defining how much source information can be lost on failure.
SupportedRecoveryTimeObjectives	DataProtectionLoSCapabilities	array	Supported expectations for time to access an alternate replica.
	DataStorageLoSCapabilities	array	Supported expectations for time to access the primary store after recovery.
SupportedReplicaOptions	DataProtectionLoSCapabilities (Links)	array	Collection of known and supported replica Classes of Service.
• *SupportedReplicaTypes**	DataProtectionLoSCapabilities	array	Supported replica types.
SupportedSecureChannelProtocols	DataSecurityLoSCapabilities	array	Supported protocols that provide encrypted communication.
SupportedUserAuthenticationTypes	DataSecurityLoSCapabilities	array	Supported authentication types for users (or programs).
SupportsAtomicTransactionSize	Volume (NVMeNamespaceProperties > 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.

Property Name	Defined In Schema(s)	Type	Description
Sup portsDealloc atedOrUnwrit tenLBError	Volume (NVMeNa mespaceProperties > N amespaceFeatures)	bo olean	This property indicates that the controller supports deallocated or unwritten logical block error for this namespace.
Supp ortsIOPerfor manceHints	Volume (NVMeNa mespaceProperties > N amespaceFeatures)	bo olean	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.
Suppor tsIsolated	DataProtecti onLoSCapabilities	bo olean	Allocating a replica in a separate fault domain is supported.
Supports NGUIDReuse	Volume (NVMeNa mespaceProperties > N amespaceFeatures)	bo olean	This property indicates that the namespace supports the use of an NGUID (namespace globally unique identifier) value.
S upportsSpace Efficiency	DataStora geLoSCapabilities	bo olean	Allows compression or deduplication of storage.
Su pportsThinPr ovisioning	Volume (NVMeNa mespaceProperties > N amespaceFeatures)	bo olean	This property indicates whether or not the NVMe Namespace supports thin provisioning.
Suspen dReplication (Action)	ConsistencyGroup (Actions)	o bject	This action is used to suspend active data synchronization between a source and target consistency group, without otherwise altering the replication relationship.
	Volume (Actions)	o bject	This action is used to suspend active data synchronization between a source and target volume, without otherwise altering the replication relationship.

Property Name	Defined In Schema(s)	Type	Description
TargetCHAPPassword	StorageGroup (ChapInfo)	s tring	The Target CHAP Secret for Mutual (2-way) CHAP authentication by the target.
Targ etCHAPUser	StorageGroup (ChapInfo)	s tring	The Target CHAP Username for Mutual (2-way) CHAP authentication by the target.
TargetConsistencyGroup	ConsistencyGroup (Actions > As signReplicaTarget (Action)), ConsistencyGroup (Actions > RemoveReplicaRelationship (Action)), ConsistencyGroup (Actions > ResumeReplication (Action)), ConsistencyGroup (Actions > ReverseReplicationRelationship (Action)), ConsistencyGroup (Actions > SplitReplication (Action)), ConsistencyGroup (Actions > S uspendReplication (Action))	s tring	The Uri to the existing target consistency group.
Targ etPassword	StorageGroup (ChapInfo)	s tring	This property is deprecated in favor of TargetCHAPPassword.
TargetS toragePool	ConsistencyGroup (Actions > Cr eateReplicaTarget (Action)), Volume (Actions > Cr eateReplicaTarget (Action))	s tring	The Uri to the existing target Storage Pool.

Property Name	Defined In Schema(s)	Type	Description
Ta rgetVolume	Volume (Actions > As signReplicaTarget (Action)), Volume (Actions > RemoveRe plicaRelationship (Action)), Volume (Actions > ResumeReplication (Action)), Volume (Actions > ReverseReplic ationRelationship (Action)), Volume (Actions > SplitReplication (Action)), Volume (Actions > S uspendReplication (Action))	s tring	The Uri to the existing target volume.
TimeT oProvision	SpareResourceSet	s tring	Amount of time needed to make an on-hand resource available as a spare.
TimeT oReplenish	SpareResourceSet	s tring	Amount of time needed to get more on-hand resources.
To talDomainCap acityBytes	NVMeDomain	in teger (b ytes)	The total capacity in bytes of this NVMe Domain.
Unalloca tedDomainCap acityBytes	NVMeDomain	in teger (b ytes)	The total unallocated capacity in bytes of this NVMe Domain.
Un allocatedNVM NamespaceCap acityBytes	StoragePool (N VMeSetProperties)	in teger (b ytes)	Indicates the unallocated capacity of the NVMe Set in bytes.
UserAuthenti cationType	DataSecu rityLineOfService	s tring (enum)	Authentication type for users (or programs).
Vendor	NVMeFirmwareImage	s tring	The vendor or manufacturer associated with this NVMe firmware image.
Version	FeaturesRegistry (Features)	s tring	The Version of the feature.
Volume	StorageGroup (MappedVolumes)	o bject	A mapped Volume.
VolumeName	Volume (Actions > Cr eateReplicaTarget (Action))	s tring	The Name for the new target volume.

Property Name	Defined In Schema(s)	Type	Description
Volumes	ConsistencyGroup, StorageGroup	array	Volumes in this storage group.
	StorageService	o bject	Volumes.
Volumes AreExposed	StorageGroup	bo olean	Storage volumes are exposed to paths defined by the client and server endpoints.
VolumeType	Volume	s tring (enum)	The type of this volume.
V olumeUsage	Volume	s tring (enum)	Indicates the Volume usage type setting for the Volume.
WriteC achePolicy	Volume	s tring (enum)	Indicates the write cache policy setting for the Volume.
Write CacheState	Volume	s tring (enum)	Indicates the WriteCacheState policy setting for the Volume.
Wri teHoleProtec tionPolicy	Volume	s tring (enum)	The policy that the RAID volume is using to address the write hole issue.
W ritePolicy	FileShare	s tring (enum)	Defines how writes are replicated to the shared source.