



Swordfish Property Guide

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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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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 https://www.snia.org/tech_activities/standards/curr_standards/swordfish.

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This document is versioned material. Versioned material shall have a three-level revision identifier, comprised of a version number ‘v’, a release number ‘r’ and an errata number ‘e’. Future publications of this document are subject to specific constraints on the scope of change that is permissible from one revision to the next and the degree of interoperability and backward compatibility that should be assumed between products designed to this standard. This versioning policy applies to all SNIA Swordfish versioned materials.

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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.

About SNIA

The Storage Networking Industry Association (SNIA) is a non-profit organization made up of member companies spanning information technology. A globally recognized and trusted authority, SNIA's mission is to lead the storage industry in developing and promoting vendor-neutral architectures, standards and educational services that facilitate the efficient management, movement and security of information.

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.
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 (<code>enum</code>). Number types state units, where used.
Description	The description of the property, as copied directly from the Schema <code>Description</code> 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	Type	Description
Access Capabilities	File System	array	An array of supported IO access capabilities.
	Data Storage	array	Required access capabilities.
	Volume	array	Supported IO access capabilities.
Access Capability	Storage	string (enumeration)	Supported IO access capability.
	Volume	map (enumeration)	

Property Name	Definition	Type	Description
• <code>SupportedAccessProtocols</code>	Array of strings containing the supported access protocols.	array	SupportedAccessProtocols.
• <code>StorageAccessState</code>	String representing the access state for this storage group.	string	AccessState for this storage group.

Property Name	Definition	Type	Description
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- object The available actions for this resource.

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Property Name	Definition	Type	Description
Storage Pool (Activities)	Storage Pool (Activities)	Object	This action is used to add an additional drive, or set of drives, to a capacity source for the storage pool.

n)

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Property Name	Definition	Type	Description
Allocated Bytes	Capacity Source (Provided Capacity > Data), Capacity Source (Provided Capacity > Metadata), Capacity Source (Provided Capacity >	Integer	The number of bytes currently allocated by the storage system in this data store for this data type.

Property Name	Definition	Type	Description
Allocated Storage Pools	Storage Pool	Object	A reference to the collection of storage pools allocated from this storage pool.
Allocated Volumes	Volume	Object	An array of references to StoragePools allocated from this Volume.
Allocated Volumes	Storage Pool	Object	A reference to the collection of volumes allocated from this storage pool.
AntiVirus Provider	Data Security Library Object	String	AntiVirus provider.

Property Name	Definition	Type	Description
• Data Security Policy	Policy for triggering an AntiVirus scan.	array	

Property Name	Definition	Type	Description
Antivirus Configuration	Data string (enumeration)	String	Types of antivirus scan triggers.

Property Name	Defined In Schema	Element Type	Description
<ul style="list-style-type: none"> ConsistencyGroupReplicationActionsTarget (Action) 		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.
VolumeAction(s)		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.

Property Name	Definition	Type	Description
Associated Domains	<ul style="list-style-type: none"> NV: An array of links to associated domains. *AMEssDomain (telinkdb)omains 	array	
Associated Task	<p>Associated Task</p> <p>(Operation)</p>	object	A reference to the task associated with the operation if any.
Authentication Method	StorageGroup (StorageGroup)	string (enum)	The Authentication method used for the Endpoints involved in this StorageGroup.

Property Name	Definition	Type	Description
Authentication	Enumeration of authentication algorithms.	String (enumeration)	

Property Name	Definition	Type	Description
• NV*AMevalmaaleFi rmware Images**		array	A collection of available firmware images.

Property Name	Definition	Type	Description
Average Bytes	IO Performance (by machines)	Integer	Average I/O Size for this component.

Property Name	Default	Type	Description
• IOPerformer	IOPerformer	integer (us)	Expected average IO latency.
Block Sizes	File System	integer (bytes)	Block size of the file system in bytes.

Property Name	Defined In Schema	Type	Description
		Integer (bytes)	Maximum Block size in bytes.
		Integer (bytes)	The size of the smallest addressable unit (Block) of this volume in bytes.
CacheVolumes	Volume Links	Array	A pointer to the data volumes this volume serves as a cache volume.
	Volume Objects	Object	A pointer to the cache volume source for this volume.
		**	
Capacity	File System	Object	Capacity allocated to the file system.

Property Name	Definition	Type	Description
	Storage Pool, Volume	Object	Capacity utilization.
• Volume	The size in bytes of this Volume.	Integer (bytes)	
*Capacity			
**			
Capacity Source	The capacity source to be extended.	Object	
	Storage Pool (Actions > Added Drives (Action))		

Property Name	Definition	Type	Description
Filesystem	• An array of capacity sources for the file system.	array	
Storage Pool	• An array of space allocations to this store.	array	
Volume	• An array of space allocations to this volume.	array	
Filesystem Preserve Case	• The case of file names is preserved by the file system.	boolean	

Property Name	Default	In Storage	Type	Description
<ul style="list-style-type: none"> File System Name 	Case sensitive	Supported	Boolean	Case sensitive file names are supported by the file system.
<ul style="list-style-type: none"> File System Name 	Continuous Availability	Supported	Boolean	Continuous Availability is supported. Client/Server mediated recovery from network and server failure with application transparency.
Change RAID Layout (Action)			Object	Request system change the RAID layout of the volume.

Property Name	Definition	Type	Description
CHAP	StorageGroup	String	The credential information used to authenticate the endpoints in this StorageGroup.
CHAP Password	StorageGroup	String	The password for CHAP authentication.

Property Name	Definition	Type	Description
CHAP User	Storage (ChapInfo)	string	The username for CHAP authentication.
CharacterSet	File System	array	An array of the character sets or encodings supported by the file system.
CharacterCodeSet	File System (CharacterSet)	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.

Property Name	Definition	Type	Description
ChildStorageGroups	StorageGroup (Links)	array	Child StorageGroups.
ClassesOfService	StorageService	object	The ClassesOfService supported by this storage pool.
ClassesOfService	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.
ClassOfService	FileSystem (Links)	object	The ClassOfService of this file system.

Property Name	Defined In Schema	Type	Description
StorageGroup (Links)		object	The ClassOfService that all storage in this StorageGroup conforms to.
Volume (Links)		object	The ClassOfService that this storage volume conforms to.
ClassOfServiceVersion		string	The value identifies the current version of this class of service definition.

Property Name	Definition	Type	Description
ClientEndpointGroups	StorageEndpointGroup	array	Groups of client endpoints in this storage group.
	StorageService	object	Client endpoint groups.
	VolumeGroupLinks	array	An array of references to the client Endpoints associated with this volume.
			**
ClusterByteSize	FileSystem	integer (bytes)	A value indicating the minimum file allocation size imposed by the file system.

Property Name	Definition	Type	Description
Componentes	IO Performance metrics (Storage Capacity, I/O workload)	array	An array of IO workload component descriptions.
Compressed	Storage Pool	boolean	Indicator of whether or not the StoragePool has compression enabled.
	Volume	boolean	Indicator of whether or not the Volume has compression enabled.

Property Name	Definition	Type	Description
ConsistencyGroups	<ul style="list-style-type: none"> • Volume consistency groups associated with this volume. 	array	An array of references to the ConsistencyGroups associated with this volume.
ConsistencyGroup	<ul style="list-style-type: none"> • Consistency method used by this group. 	string	The consistency method used by this group.

Property Name	Definition	Type	Description
Consistency	The consistency type used by this group.	String (enumeration)	

Property Name	Definition	Type	Description
*Capacity Source (Provided Capacity) > Metadata (Provided Capacity) >		Integer (bytes)	The number of bytes consumed in this data store for this data type.

Property Name	Definition	Type	Description
Core Profile	Feature Registry (Feature Profile)	String	The profile definition that defines the feature.
Create Replicas (Action)	Data Protection (Action)	Object	This action creates an on-demand replica.

Property Name	Defined In Schema	Element Type	Description
<ul style="list-style-type: none"> ConsistencyGroupRoleDefinition (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.

Property Name	Defined In Schema	Element Type	Description
Data Capacity Source (Provided Capacity)	Capacity Source	Object	The capacity information relating to the user data.
Data Protection Line of Service	Class of Service	Array	A collection of DataProtection line of service elements.

Property Name	Definition	Type	Description
Storage Objects	Storage objects, storage, storage, storage objects	Object	The data protection capabilities of this service.
Data Sanitization Policy	Data sanitization policy.	String (enumeration)	

Property Name	Definition	Type	Description
	DataSanitizationPolicy	String (enumeration)	Types of data sanitization policies.
Data Security Line of Service	Class of service	Array	A collection of DataSecurity line of service elements.

Property Name	Definition	Type	Description
Storage Objects	The data security capabilities of this service.		

Property Name	Definition	Type	Description
• ArrayOfServiceLinks	A collection of DataStorage service elements.	array	
DataStorageCapabilities	The data storage capabilities of this service.	object	

Property Name	Definition	Type	Description
StoragePoolNVMe	Storage	Integer	The property contains the total number of data units read from this endurance group.

Property Name	Definition	Type	Description
Data Units Written	Storage Pool (NVMe Endurance Group Properties > Endurance Group Properties)	Integer	The property contains the total number of data units written from this endurance group.
Dedicated Drives	Storage Pool (Links)	Array	An array of references to the drives which are dedicated spares for this StoragePool.

Property Name	Defined In Schema	Type	Description
	Volume Links	array	An array of references to the drives which are dedicated spares for this volume.
Deduplicated	Storage Pool	boolean	Indicator of whether or not the StoragePool has deduplication enabled.
	Volume	boolean	Indicator of whether or not the Volume has deduplication enabled.
DeduplicatedEnabled	Storage Pool	boolean	Indicates whether or not deduplication is enabled on the storage pool.

Property Name	Defined In Schema	Element Type	Description
Default Access Capabilities	FileShare	Array	<ul style="list-style-type: none"> An array of default access capabilities for the file share. The types of default access can include Read, Write, and/or Execute.
Default Storage Object Class	StorageService (Links)	Object	<ul style="list-style-type: none"> The default class of service for entities allocated by this storage service.

Property Name	Defined In Schema	Entity Type	Description
	Storage Pool (Links)	Object	The default class of service for entities allocated from this storage pool.
Default Compression Behavior	Storage Pool	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.
Default Duplication Behavior	Storage Pool	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.

Property Name	Defined In Schema	Element Type	Description
StoragePoolDefaultEncryptionBehavior**		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	Definition	Type	Description
Delete Target Consistency Group Role	Consistency Group Role	Boolean	Indicate whether or not to delete the target consistency group as part of the operation.
Relationship (Action)	Relationship (Action)	Relationship (Action)	

Property Name	Definition	Type	Description
DeleteTargetVolume	Volume Element Operations > Remove Element Operation (Action))	Boolean	Indicate whether or not to delete the target volume as part of the operation.
DHCHAPInfo	Storage Group	Array	The credential information used to authenticate the endpoints in this StorageGroup for DHCHAP.
• *DeviceName**	Volume Element Operations > Play Name	String	A user-configurable string to name the volume.

Property Name	Definition	Type	Description
DomainMembers	• NV *DMemberNameMembers	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 > Change RAID Layout) (Action))	array	An array of the drives to be used by the volume.

Property Name	Defined In Schema	Type	Description
Storage Pool (Actions > Added Drives (Action))	Storage Pool (Actions > Added Drives (Action))	array	The drive(s) to be added.
Storage Pool (Actions > Removed Drives (Action))	Storage Pool (Actions > Removed Drives (Action))	array	The drive(s) to be removed.
Storage Object Service	Storage Object Service	object	The set of drives managed by this storage service.

Property Name	Definition	Type	Description
Duration	IO Performance management console (Solaris Capability List) (Support or did not work on desktops) Components)	string (seconds)	Duration that this component is active.

Property Name	Defined In Schema	Element Type	Description
Enabled	Storage Pool (Actions > Set Compression State (Action))	boolean	This property indicates the desired compression state of the storage pool.
Enabled	Storage Pool (Actions > Set Deduplication State (Action))	boolean	This property indicates the desired deduplication state of the storage pool.

Property Name	Definition	Type	Description
StoragePool (Actions > SetEncryptionState (Action))		boolean	This property indicates the desired encryption state of the storage pool.
StoragePool*EncryptionState**		boolean	Indicator of whether or not the StoragePool has encryption enabled.
Volume		boolean	Is this Volume encrypted.

Property Name	Defined In Schema	Element Type	Description
StorageEncryptionPool	StorageEncryptionPool	boolean	Indicates whether or not encryption is enabled on the storage pool.
StorageEncryptionKey	StorageEncryptionKey	string	The encryption key to set on the storage subsystem.

Property Name	Definition	Type	Description
<ul style="list-style-type: none"> Volume Encryption Types 		Array	The types of encryption used by this Volume.
Endurance Group Lifetime	Storage Pool (NVM endurance groups)	Object	This property contains the Endurance Group Lifetime properties.

Property Name	Definition	Type	Description
Endpoint Groups	Storage	Object	Client and Server endpoint groups.
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	neSer		
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			Endpoints.

Property Name	Definition	Type	Description
Endurance Group Identifier	Storage Pool (NVMe Set Properties)	String	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 amplification of 1.
Endurance Group Identifier	Storage Pool (NVMe Set Properties)	String	A 16-bit hex value that contains the endurance group identifier.

Property Name	Definition	Type	Description
StoragePoolOfNVRAMEnduranceAttributesGroupEntry	StoragePoolOfNVRAMEnduranceAttributesGroupEntry	Integer	This property contains the number of error information log entries over the life of the controller for the endurance group.
Ethernet Interfaces	FileShare	Object	A link to the collection of Ethernet interfaces that provide access to this file share.

Property Name	Definition	Type	Description
ExecuteSshareSupport	File share	boolean	Execute access is supported by the file share.
ExportedShares	File system	object	An array of exported file shares of this file system.
	Storage	object	Expose the storage volumes of this group.
	*Example: Group (Volume Actions)		
	es (Action)		
	io		
	n)		
	**		

Property Name	Definition	Type	Description
Failure Domain	Geographic scope of a failure domain.	String (enumeration)	Values of this enumeration represent a geographic scope of a failure domain.
Feature Name	The Name of the feature.	String	The Name of the feature.

*Features are registered by Feature Name

**

Property Name	Definition	Type	Description
Feature Registry	The pattern property indicates that a free-form string is the unique identifier for the feature within the registry.	array	
File Sharing Protocols	The file sharing protocols supported by the file system.	string (enumeration)	
File Share Path	A path to an exported file or directory on the file system where this file share is hosted.	string	

Property Name	Default	Type	Description
FileShareQuotaType	FileShareQuotaType	Enumeration	Specifies the type of quota enforcement.
FileShareRemainingBytes	FileShareRemainingBytes	Integer	The number of remaining bytes that may be used by this file share. (by test)
FileShareTotalQuotaBytes	FileShareTotalQuotaBytes	Integer	The maximum number of bytes that may be used by this file share. (by test)

Property Name	Definition	Type	Description
File Sharing Protocols	File Shares	array	An array of file sharing protocols supported by this file share.
File System	File Shares (Links)	object	A link to the file system containing the file share.
	Storage File Services	object	FileSystems.

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Property Name	Definition	Type	Description
<ul style="list-style-type: none"> NVM Firmware Image 	<ul style="list-style-type: none"> The firmware version of the available NVMe firmware image. 	string	
<ul style="list-style-type: none"> Volume (Activation) Enable 	<ul style="list-style-type: none"> Request system force the volume to an enabled state regardless of data loss. 	object	

Property Name	Definition	Type	Description
Format Size	Volume (NVMe Namespace)	String	The LBA data size and metadata size combination that the namespace has been formatted with.

Property Name	Definition	Type	Description
HideStorageVolumes	Hide the storage volumes of this group.	Boolean	
HostAuthenticationType	Authentication type for hosts (servers) or initiator endpoints.	String (enum)	

Property Name	Definition	Type	Description
<ul style="list-style-type: none"> Storage Controller 	<ul style="list-style-type: none"> The hosting system or storage controller hosting this storage service. 	Object	
Host Read Command Count	This property contains the number of read commands completed by all controllers in the NVM subsystem for the Endurance Group.	Integer	

Property Name	Definition	Type	Description
Storage Pool Write Endurance Count Group Identifier	Storage Pool Write Endurance Count Group Identifier	Integer	This property contains the number of write commands completed by all controllers in the NVM subsystem for the Endurance Group.
Identifier	File System (identifiers), Volume (identifiers)	Object	Any additional identifiers for a resource.

Property Name	Defined In Schema	Element Type	Description
Class of Service, Data Protection Location SCAP Ability, Data Storage Location SCAP Ability, Data Storage Location SCAP Ability		Object	The value identifies this resource.

Property Name	Definition	Type	Description
VolumeImpermanentDurableNames	• VolumeImpermanentDurableNames	array	The Durable names for the volume.
FileSystemDurableNames	File System	array	The durable names for this file system.
ImportedShares	File System	array	An array of imported file shares.
InitializeAction	Volume (Action)	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)	string	Indicates the Initialization Method used for this volume. If InitializeMethod is not specified, the InitializeMethod should be Foreground.

Property Name	Default	Type	Description
	Volume	string	The type of initialization to be performed.
	(Actions)	enum	
Initialize Type	Volume	string	The type of initialization to be performed.
	(Actions)	enum	

Property Name	Defined In Schema	Element Type	Description
<ul style="list-style-type: none"> Storage tag identifier (CHAP) Password 	Storage tag identifier (CHAP) Password	string	The shared secret for Mutual (2-way) CHAP authentication by the initiator.
<ul style="list-style-type: none"> Storage tag identifier (CHAP) Username 	Storage tag identifier (CHAP) Username	string	The Initiator username for Mutual (2-way) CHAP authentication by the initiator.

Property Name	Definition	Type	Description
• IO*IPerformance	IO*IPerformance	string (enumeration)	Expected access pattern for this component.

Property Name	Definition	Type	Description
IOConnectivityLineService	Class of service elements	array	A collection of IOConnectivity line of service elements.

- **Storage Objects, Network tagitiveService (Links) Capability** The IO connectivity capabilities of this service.

Property Name	Default	Type	Description
IOPerfLimit	boolean	boolean	Limiting IOPS is supported.
IOPerfLimit	boolean	boolean	Limit the IOPS.

Property Name	Definition	Type	Description
• Volume	Indicates the IO performance mode setting for the volume.	boolean	
*Implementation			
• Class	A collection of IOPerformance line of service elements.	array	
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Property Name	Definition	Type	Description
IO Performance Characteristics	Storage Service, Storage Agent, Storage Service	Object	The IO performance capabilities of this service.
IO Statistics	File System	Object	Statistics for this FileSystem.
	Storage Pool	Object	Statistics for this StoragePool.
	Storage Service	Object	Statistics for this StorageService.
	Volume	Object	Statistics for this volume.

Property Name	Definition	Type	Description
IO Workload	IO Performance workload	object	A description of the expected workload.
Volume	Volume	boolean	This property indicates whether or not the Volume contains a boot image and is capable of booting.
Consistent	Consistency Group	boolean	This value is true when the consistency group is in a consistent state.

Property Name	Definition	Type	Description
Isolated	Data Protection Location Object Service	Boolean	The replica is in a separate fault domain.
VolumeShareable	Volume Namespace	Boolean	Indicates the namespace is shareable.
StorageEfficient	Data Storage Location Object Service	Boolean	True implies compression or deduplication of storage.

Property Name	Definition	Type	Description
Capacity	Marks that the capacity is not necessarily fully allocated.	Boolean	
Volume Link	A pointer to the Resource that serves as a journaling media for this volume.	Object	

Property Name	Definition	Type	Description
• Data Key Enumeration	String Enumeration	Enumeration	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)).
**Capability Enumeration	String Enumeration	Enumeration	Enumeration of supported encryption types, (see NIST SP 800-57 part 1 (http://csrc.nist.gov/publications/nistpubs/800-57/sp800-57_part1_rev3_general.pdf)).

Property Name	Definition	Type	Description
Language	Features Registry	string	This is the RFC 5646 compliant language code for the registry.
Volume (BAIV Format Namespace Support Properties)	• Volume (BAIV Format Namespace Support Properties)	array	A list of the LBA format types supported for the namespace, or potential namespaces.

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Property Name	Definition	Type	Description
<ul style="list-style-type: none"> Volume Management (LBAFormatType) 	<ul style="list-style-type: none"> LBAFormatType is defined in the NVMe specification set. 	String (enumeration)	This field indicates the LBA data size supported; implementations may report up to 16 values. For more details refer to the appropriate NVMe specification.
LinesOServices	The LinesOService defined for this StorageService.	Array of Strings	

Property Name	Definition	Type	Description
Content List Item Key Group, Data Protection Location SCAP Ability Issue, File System, Spare Resource Set, Storage Group, Storage Service	Contains links to other resources that are related to this resource.	Object	

Property Name	Defined In Schema	Type	Description
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.
NVMe Domain		object	The links to other resources that are related to this resource.
• StorageLagooEgDHPCKDAPHCAuthplthmfo)Secret**		string	The local DHCHAP auth secret for DHCHAP authentication.

Property Name	Defined In Schema	Type	Description
LogicalUnitNumber**		Integer	Indicates the host-visible LogicalUnitNumber assigned to this Volume.
StorageGroup (Mapped Volume s)		String	A SCSI Logical Unit Number for a Volume.

Property Name	Definition	Type	Description
LowSpaceWarningThresholdPercentages	File Shares	array (%)	An array of low space warning threshold percentages for the file share.
	File System	array (%)	An array of low space warning threshold percentages for the file system.
	Storage Pool	array (%)	Low space warning threshold specified in percents.
	Volume	array (%)	Low space warning.
Manufacturer	Volume	string	The manufacturer or OEM of this storage volume.

Property Name	Definition	Type	Description
• Storage Group	Mapped Volumes in this storage group.	array	
• Max Block Size	Max Block size in bytes.	integer (bytes)	
Storage Pool	Maximum Block size in bytes.	integer (bytes)	

Property Name	Default	Type	Description
Maximum Bandwidth	100000000	integer (Bytes)	The maximum Bandwidth in bytes per second that a connection can support.
Maximum File Name Length	255	integer (bytes)	A value indicating the maximum length of a file name within the file system.

Property Name	Defined In Schema	Element Type	Description
• NVMeaxioMaximumCapacityPerEnduranceGroupBytes**		integer (bytes)	The maximum capacity per endurance group in bytes of this NVMe Domain.

Property Name	Definition	Type	Description
Maximum Availability	Maximum number of capacity source resources for the purpose of recovery from a failure.	Integer	

Property Name	Default	Type	Description
<ul style="list-style-type: none"> *IOPerfMaxOpsPerSecond 		integer (1/s)	The amount of IOPS a volume of a given committed size can support.
<ul style="list-style-type: none"> *IOConnectivityLimit 		integer [IOPS]	The maximum supported IOs per second that the connection will support for the selected access protocol.

Property Name	Definition	Type	Description
• Maximum Sampling Period	IO Performance Sampling Period	string (seconds)	Maximum sampling period over which average values are calculated.
Maximum Supported Bandwidth	Maximum Bandwidth	integer (Bytes)	The maximum Bandwidth in bytes per second that a connection can support.

Property Name	Definition	Type	Description
Maximum IOPS supported IO PS	IO Connections	Integer	The maximum IOPS that a connection can support.
*Managed Endurance Group	Endurance Group	Integer	This property contains the number of occurrences where the controller detected an unrecovered data integrity error for the Endurance Group.

Property Name	Definition	Type	Description
MediaSpanCount	<ul style="list-style-type: none"> • Data striping (encryption) unit length. 	Integer	Indicates the number of media elements used per span in the secondary RAID for a hierarchical RAID type.

Property Name	Defined In Schema	Element Type	Description
Volume (Actions > Change RAID Layout) (Action))		integer	The requested number of media elements used per span in the secondary RAID for a hierarchical RAID type.

Property Name	Definition	Type	Description
StoragePoolia(NVUMeasureUnitEnduranceGroup)	StoragePoolia(NVUMeasureUnitEnduranceGroup)	Integer	The property contains the total number of data units written from this endurance group.
StorageServiceReferences	StorageServiceReferences	Array	The value of each member references a StorageService resource.

Property Name	Definition	Type	Description
<ul style="list-style-type: none"> • H o s t r i *M e d S e r t o r a b e r s S e r v @ i c e s o d a t 		string	The URI to the resource containing the next set of partial members.
<ul style="list-style-type: none"> a. 			
<ul style="list-style-type: none"> ne xt Li nk ** 			
<ul style="list-style-type: none"> M e m b e r s A r e C o n s i s t e n t 	Storage	boolean	Members are kept in a consistent state.

Property Name	Definition	Type	Description
Metadata	Capacity Source (Provide Capacity)	Object	The capacity information relating to metadata.
*Metadata Namespace Properties	Volume Metadata Namespace Properties	Boolean	This property indicates whether or not the metadata is transferred at the end of the LBA creating an extended data LBA.

Property Name	Definition	Type	Description
• MAP Minimum Lifetime	Minimum lifetime (seconds) that replica must be maintained.	string	
• IOPerf Minimum Sampling Period	Minimum sampling period over which average values are calculated.	string (seconds)	

Property Name	Definition	Type	Description
Minimum Supported I/O Latency	IO Performance	Integer (us)	Minimum supported average IO latency.
Microseconds	Volume	String	The model number for this storage volume.

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Property Name	Definition	Type	Description
Namespace Features	Volume Namespace Features	Object	This property contains a set of Namespace Features.
Namespace Identifier	Volume Namespace Identifier	String	The NVMe Namespace Identifier for this namespace.

Property Name	Defined In Schema	Namespace	Type	Description
Number of LBA Data Size and Metadata Size Combinations	Volume	Integer	(by this property is between 0 and 16)	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 Device Type	NVMe	String	(enumeration)	The type of NVMe Device this image is associated with.
NVMe Endurance Group Properties	Storage Pool	Object		This property contains properties to use when StoragePool is used to describe an NVMe Endurance Group.

Property Name	Defined In Schema	Namespace	Type	Description
<ul style="list-style-type: none"> Volume Namespace Properties 			object	This property contains properties to use when Volume is used to describe an NVMe Namespace.
NVMePoolType	StoragePool (NVMePreperties)	string (enumeration)	Indicates whether the StoragePool is used as an EnduranceGroup or an NVMeSet.	
NVMePoolProperties	StoragePool	object	NVMe properties for this storage pool.	

Property Name	Defined In Schema	Element Type	Description
StoragePoolSetProperties**		object	This property contains properties to use when StoragePool is used to describe an NVMe Set.
VolumeNamingVersion		string	The version of the NVMe Base Specification supported.
On Hand Location		spares object	Location where this set of spares is kept.

Property Name	Definition	Type	Description
Online Resources	Resources (Links)	Array	The type of resources in the set.
Online	Resources	Boolean	This set is available online.
Operations	Operations	String	The name of the operation.
Operations	Operations	Array	The operations currently running on the Volume.

Property Name	Defined In Schema	Element Type	Description
OptimalWriteSize	StoragePool (NVMes)	integer (bytes)	This property contains the Optimal Write Size in Bytes for this NVMe Set.
OptimumIOSize	Volume	integer (bytes)	The size in bytes of this Volume's optimum IO size.
Organization	Feature Registry	string	This is the organization or company that publishes this registry.

Property Name	Definition	Type	Description
StoragePool	StoragePool (Links)	Object	A pointer to the Storage resource that owns or contains this StoragePool.
VolumeLink	Volume (Links)	Object	A pointer to the Storage resource that owns or contains this volume.
OwnershipService	Volume (Links)	Object	A pointer to the StorageService that owns or contains this volume.

Property Name	Defined In Schema	Type	Description
<ul style="list-style-type: none"> StorageGroup *ParentStorageGroups emotionsSupport (ras) group ps ** 		array	Parent StorageGroups.
PeerDHCHAPAuthSecret		string	The peer DHCHAP auth secret for DHCHAP authentication.
PercentageComplete		integer	The percentage of the operation that has been completed.

Property Name	Definition	Type	Description
• IO*Perrorcema ntn OEL DaaS taCa**pa biliti es (Su pp or te dl OW or kl oa ds > Com po ne nt s)	Percent of data for this workload component.	Integer (%)	

Property Name	Definition	Type	Description
• IO*Performance	Percent of total IOPS for this workload component.	Integer (%)	

Property Name	Definition	Type	Description
Storage Pool Usage Percentage	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.	Integer	
Storage Pool Usage Type	Pool usage type for this storage pool.	Array	

Property Name	Definition	Type	Description
<ul style="list-style-type: none"> StoragePoolMember StoragePoolMemberCapacity 	<ul style="list-style-type: none"> The percentage of reads and writes that are predicted to be available for the media. 	Number (%)	
ProvidedCapacity	The amount of space that has been provided from the ProvidingDrives, ProvidingVolumes, ProvidingMemory or ProvidingPools.	Object	

Property Name	Definition	Type	Description
ProvidedCapacitySourceService		ClassOfService	The ClassOfService provided from the ProvidingDrives, ProvidingVolumes, ProvidingMemoryChunks, ProvidingMemory or ProvidingPools.
		CapacitySource	<ul style="list-style-type: none"> The drive or drives that provide this space.
		MemorySource	<ul style="list-style-type: none"> The memory that provides this space.

Property Name	Definition	Type	Description
Capacity	The memory chunks that provide this space.	Scalar	
Capacity Source	The pool or pools that provide this space.	Scalar	
Volume	The volume or volumes that provide this space.	Scalar	

Property Name	Definition	Type	Description
Provisioned Bytes	Capacity Source (Provided Capacity > Data), Capacity Source (Provided Capacity > Metadata), Capacity Source (Provided Capacity >	Integer	The maximum number of bytes that can be allocated in this data store for this data type.

Property Name	Definition	Type	Description
Provisioning Policy	Data Storage Organization Element	Storage (element)	Provisioning policy for storage.

Property Name	Definition	Type	Description
	Database Storage Policies (Supported Provisioning Policies), Storage Pool (Supported Provisioning Policies)	String (enum)	Space provisioning policy.

Property Name	Defined In Schema	Type	Description
	Volume	string (enum)	This property specifies the volume's storage allocation, or provisioning policy.
RAID Type	Volume	string (enum)	The RAID type of this volume.
	Volume (Actions > Change RAID Layout) (Action))	string (enum)	The requested RAID type for the volume.

Property Name	Default	Type	Description
Random4kReads	Storagel (NVMe Set Properties)	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.
VolumeReadCachePolicy	String	String	Indicates the read cache policy setting for the Volume.

Property Name	Definition	Type	Description
Recoverable Capacity	File systems, Storage Agents, Pool, Volume	Integer	Current number of capacity source resources that are available as replacements.
Required Capacity	Storage Elements, Server	Integer	Required minimum number of available capacity source resources.

Property Name	Definition	Type	Description
• Data Replication Object Identifier (DRPO)	String (enumeration)	Enumeration	An enumeration that represents the relative time required to make a replica available as a source.

Property Name	Definition	Type	Description
	<ul style="list-style-type: none"> Dating (e.g. North America, Europe, Asia, Africa, Oceania, South America) 	String	Geographic distribution scopes.
Recovery Periodic Time	<ul style="list-style-type: none"> Time interval defining how much source data that can be lost on failure. 	String	Time interval defining how much source data that can be lost on failure.

Property Name	Definition	Type	Description
RecoveryTime	<ul style="list-style-type: none"> • Data Protection Object Element Identifier 	string (enumeration)	An enumeration value that indicates the expected time to access an alternate replica.
RecoveryTimeObjectives		string (enumeration)	Expectations for time to access the primary store after disaster recover.
Redundancy		string (array)	Redundancy information for the storage subsystem.

Property Name	Definition	Type	Description
Registry Prefix	Features Registry	String	This is the single word prefix used to form a Feature ID structure.
	<ul style="list-style-type: none"> Features Registry version which is used in the middle portion of a Feature ID. 		
	<ul style="list-style-type: none"> File System Remaining Capacity 	Object	Remaining capacity allocated to the file system.

Property Name	Defined In Schema	Type	Description
RemainingCapacityPercentage	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.
RemoteReplicas	ContainerGroup, Volume	array	URIs to the resources that are remote target replicas of this source.

Property Name	Definition	Type	Description
Remove Drives (Action)	Storage Pool (Action)	Object	This action is used to remove drive(s) from the capacity source for the StoragePool.
Remove Replication Relationship (Action)	Consistency Group (Action)	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.

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Property Name	Definition	Type	Description
Volume Action	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.
Replacement Sets	Spare Resources (Links)	Array	Other spare sets that can be utilized to replenish this spare set.
Data Protection Location Access Service Location	Data Protection Location Access Service Location	Object	Location that supplies data access to the replica.

Property Name	Definition	Type	Description
• Data Protection Class Object	The replica's class of service.	Object	
• File Array	An array of links to replicas for this file system.	Array	

Property Name	Definition	Type	Description
• <code>ConsistentGroupInStoragePolicy</code>		Object	Describes this storage group in its role as a target for replication.
<code>Volume</code>		Object	Describes this storage volume in its role as a target replica.
<code>FileSystem</code>		Object	This value describes the replica attributes if this file system is a replica.

Property Name	Definition	Type	Description
Replicational Service	Data Protection Role Object	Object	The data protection line of service this action is bound to.

Property Name	Definition	Type	Description
*Replication	The name of the new replica.	String	

Property Name	Definition	Type	Description
• <code>dataProtectionConfigurationResourceSets(Actions>CreateReplicas(Action))</code>		array	Specifies the resources to replicate and a name for the replica.

Property Name	Definition	Type	Description
• Data Protection Object	A resource to be replicated.		

Property Name	Definition	Type	Description
Replicates	Consistent Group, File System, Storage Group, Volume	array	The resources that are target replicas of this source.

Property Name	Definition	Type	Description
• <code>RelationshipType</code>	Configuration	String (enumeration)	The type of replica relationship to be created (e.g., Clone, Mirror, Snap).
<code>AssignmentReplicationTarget (Action), ConsistencyGroup (Action), CreateReplicationTarget (Action))</code>			

Property Name	Definition	Type	Description
	Volume (Actions > Assignments), Volume (Actions > CreateReplication))	string	The type of replica relationship to be created.

Property Name	Definition	Type	Description
dataProtectionLevel	Defines the level of protection for the data.	Enumeration	Type of replica.
dataProtectionLevel	Defines the level of protection for the data.	Enumeration	Values of ReplicaType describe the intended outcome of the replication.

Property Name	Definition	Type	Description
ConsistencyGroupUpdateMode	ConsistencyGroupUpdateMode	Enumeration	The replica update mode (synchronous vs asynchronous).

Property Name	Definition	Type	Description
Resource Type	Spaces	string	The type of resources in the set.
• Consistency Group Operations (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.
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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.

Property Name	Definition	Type	Description
ReverseReplication (Action)	ConsistencyGroup	Object	This action is used to reverse the replication relationship between a source and target consistency group.
ReverseVolume (Actions)	Volume	Object	This action is used to reverse the replication relationship between a source and target volume.
RootAccess	FileShare	Boolean	Root access is allowed by the file share.
SamplePeriod	IOPerformance	String	Sampling period over which average values are calculated.

Property Name	Definition	Type	Description
Schedule	Database replication schedule	Object	A schedule for making periodic point in time replicas.
IO Performance Characteristics	IO Performance Characteristics	Object	Specifies when to apply this workload component.

Property Name	Definition	Type	Description
• Data Security	Protocol that provide encrypted communication.	String (enumeration)	

Property Name	Definition	Type	Description
	Data Security Lists (DASLs)	string (enumeration)	Types of Secure channel protocols.
Server Endpoint Groups	Storage Array Groups (SAGs)	array	Groups of server endpoints in this storage group.

Property Name	Definition	Type	Description
StorageService	Storage Service	Object	Server endpoint groups.
ServerEndpointLinks	Server Endpoint Links	Array	An array of references to the server Endpoints associated with this volume.

• Volume ServerEndpointLinks

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Property Name	Definition	Type	Description
StoragePoolCompression (Action)	Set the compression state of the pool.	Object	This action is used to set the compression state of the pool.

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Property Name	Definition	Type	Description
StoragePoolDeactivation	StoragePoolDeactivation (Action)	Object	This action is used to set the dedupe state of the pool.
StorageEncryptionKeyAction	StorageEncryptionKeyAction (Action)	Object	This action is used to set the encryption key for the storage subsystem.

Property Name	Definition	Type	Description
SetEncryptionState (Action)	Storage Pool (Actions)	Object	This action is used to set the encryption state of the pool. <ul style="list-style-type: none"> Storage Pool Identifier (NVMe Set Identifier)
Snapshot Capacity	Capacity Source (Provided Capacity)	Object	The capacity information relating to snapshot or backup data.

Property Name	Definition	Type	Description
	File System Parameters (Links), Storage Pools (Links),	array	An array of references to SpareResourceSets.
	Storage Service	array	An array of SpareResourceSets.
SplitReplicationAction	Consistency Group (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.

Property Name	Definition	Type	Description
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.
	NVMeDevice	Object	The status and health of the resource and its subordinate or dependent resources.

Property Name	Definition	Type	Description
StorageAccessCapabilities	Values of StorageAccessCapability describe abilities to read or write storage.	Enumeration	

Property Name	Definition	Type	Description
<ul style="list-style-type: none"> VolumeReferences 	<ul style="list-style-type: none"> An array of references to the StorageGroups associated with this volume. 	array	
VolumeObject	An array of references to Storage Groups that includes this volume.	object	
StorageService	StorageGroups.	object	
StoragePools	StoragePools.	object	

Property Name	Definition	Type	Description
Storage Objects	A reference to storage subsystems managed by this storage service.	Object	
Stripe Size	The number of blocks (bytes) requested for new stripe size.	Integer	
Stripe Size	The number of blocks (bytes) in a stripe in a disk array that uses striped data mapping.	Integer (bytes)	

Property Name	Definition	Type	Description
• SupportedAccessCapabilities	Supported access capabilities.	array	
SupportedAccessProtocols	SupportedAccessProtocols.	array	

Property Name	Definition	Type	Description
Supported AntiVirus Providers	<ul style="list-style-type: none"> • Data array of supported AntiVirus providers. 	array	Supported AntiVirus providers.
Supported Policies that trigger an AntiVirus scan	<ul style="list-style-type: none"> • Data array of supported policies that trigger an AntiVirus scan. 	array	Supported policies that trigger an AntiVirus scan.

Property Name	Definition	Type	Description
• Data Security Policy	Supported key sizes for transport channel encryption.	array	

Property Name	Definition	Type	Description
• Data Security Policy Category	Supported data sanitization policies.	array	

Property Name	Defined In Schema	Type	Description
Supported Authentication Types	Data Structures	Array	Supported authentication types for hosts (servers) or initiator endpoints.
Supported Workloads	IO Performance	Array	A collection of supported workloads.

Property Name	Definition	Type	Description
• DataProtectionCapabilities	Collection of known and supported DataProtectionLinesOfService.	array	
DataSecurityCapabilities	Collection of known and supported DataSecurityLinesOfService.	array	

Property Name	Defined In Schema	Type	Description
DataStorageCapabilities		array	Collection of known and supported DataStorageLinesOfService.
IOConnectivityCapabilities		array	Collection of known and supported IOConnectivityLinesOfService.
IOPerformanceCapabilities		array	Collection of known and supported IOPerformanceLinesOfService.

Property Name	Default	Type	Description
• Data Security Policy	128	array	Supported key sizes for media encryption.
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Property Name	Definition	Type	Description
<ul style="list-style-type: none"> • Supported Minimum Lifetime 		array	Supported minimum lifetime that replica must be maintained.
Supported Pool Types		array	A collection of the Pool Types supported by the storage pool.

Property Name	Definition	Type	Description
• Supported types of failure domains.	<ul style="list-style-type: none"> • Data array • SaP • upote • portio • rtnL • eoS • RCa • cpa bi • vdi ti • ryes • Ge • og • ra • ph • ic • Ob • je • ct • iv • es • ** 		

Property Name	Definition	Type	Description
Supported Rotational Latency	Supported time intervals defining how much source information can be lost on failure.	array	

Property Name	Definition	Type	Description
• Data Replication Capability Time Objectives**		array	Supported expectations for time to access an alternate replica.
Data Storage Availability		array	Supported expectations for time to access the primary store after recovery.

Property Name	Definition	Type	Description
*SaP upote patio rtnL eoS RCa plpa bi icli ti a@s (pLink ios) ns **	Data	array	Collection of known and supported replica Classes of Service.
*SaP upote patio rtnL eoS RCa plpa bi icli ti aTs yp es **	Data	array	Supported replica types.

Property Name	Definition	Type	Description
<ul style="list-style-type: none"> • Dat *SaS ur pot yL rtoS Ca pa bi culi ti rees Ch an ne IP ro to co ls ** 		array	Supported protocols that provide encrypted communication.
Su pp or te dU se rA ut he nt ic at io nT yp es		array	Supported authentication types for users (or programs).

Property Name	Definition	Type	Description
• Volume Namespace Preferred	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.	Boolean	

Property Name	Definition	Type	Description
• Volume	This property indicates that the controller supports deallocated or unwritten logical block error for this namespace.	Boolean	

Property Name	Defined In Schema	Namespace	Type	Description
SupportIOPerformance namespace hints	Volume Namespaces	Boolean	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.
SupportIsolated	Data Protection	Boolean	Boolean	Allocating a replica in a separate fault domain is supported.

Property Name	Definition	Type	Description
Supports Namespace Properties > Namespace Features	Volume Name (Namespace VM eName)	Boolean	This property indicates that the namespace supports the use of an NGUID (namespace globally unique identifier) value.

Property Name	Definition	Type	Description
• Data Storage Upgrade Policy Scheduling Efficiency	Allows compression or deduplication of storage.	Boolean	

Property Name	Definition	Type	Description
Supports Thin Provisioning	Volume Namespace VM Enablement	Boolean	This property indicates whether or not the NVMe Namespace supports thin provisioning.
Suspend Replication (Action)	Consistency Group	Object	This action is used to suspend active data synchronization between a source and target consistency group, without otherwise altering the replication relationship.
Suspend Replication (Action)	Volume (Actions)	Object	This action is used to suspend active data synchronization between a source and target volume, without otherwise altering the replication relationship.

Property Name	Definition	Type	Description
TargetCHAPAssword	Storage	string	The Target CHAP Secret for Mutual (2-way) CHAP authentication by the target.
TargetCHAPUsername	Storage	string	The Target CHAP Username for Mutual (2-way) CHAP authentication by the target.

Property Name	Definition	Type	Description
Target Consistency Group	Consistency Group	String	The Uri to the existing target consistency group.
Relationship	Relationship	String	

Property Name	Definition	Type	Description
TargetPassword	Storage	string	This property is deprecated in favor of TargetCHAPPASSWORD.

Property Name	Definition	Type	Description
•	Co st ri *Tns is arte nc geyG tSro toup (A ract io gens > P@ re olat eR **ep li ca Ta rg et (A ct io n) , Vo lu me (A ct io ns > C re at eR ep li ca Ta rg et (Ac ti on)	st ri ng	The Uri to the existing target Storage Pool.

Property Name	Definition	Type	Description
Target Volume	Volume string (Actions > Assignments > Replication Target (Action)), Volume (Actions > RemoveReplication Relationship (Action)), Volume (Actions > R	string	The Uri to the existing target volume.

Property Name	Definition	Type	Description
*TeRines eTou rc oRS et ro vi si on **	Sp ar	st ri	Amount of time needed to make an on-hand resource available as a spare.
*TeRines eTou rc oRS et ep le ni sh **	Sp ar	st ri	Amount of time needed to get more on-hand resources.

Property Name	Defined In Schema	Element Type	Description
TotalCapacityBytes	NVMe Domain	integer (bytes)	The total capacity in bytes of this NVMe Domain.
UnallocatedCapacityBytes	NVMe Domain	integer (bytes)	The total unallocated capacity in bytes of this NVMe Domain.

Property Name	Definition	Type	Description
Unallocated NVMe Capacity Bytes	Storage Pool (NVMe Set Properties)	Integer	Indicates the unallocated capacity of the NVMe Set in bytes.
User Authentication Type	Database Authentication Type	String	Authentication type for users (or programs).
Vendor	NVMe Firmware Image	String	The vendor or manufacturer associated with this NVMe firmware image.

Property Name	Definition	Type	Description
• Features Registry of Features	Feature string		The Version of the feature.
Volume	Storage Object		A mapped Volume.

Property Name	Definition	Type	Description
Volume Name	Volume Name (Actions > Create Replica Target (Action))	string	The Name for the new target volume.
Volume Group	Volume Group	array	Volumes in this storage group.
Storage Object	Storage Object	object	Volumes.

Property Name	Defined In Schema	Type	Description
StorageVolumeGroup		boolean	Storage volumes are exposed to paths defined by the client and server endpoints.
VolumeType		string (enumeration)	The type of this volume.
			Indicates the Volume usage type setting for the Volume.

Property Name	Default	Type	Description
WriteCachePolicy	VolumeString	String	Indicates the write cache policy setting for the Volume.
<ul style="list-style-type: none"> WriteCachePolicy** 	VolumeString	String	Indicates the WriteCacheState policy setting for the Volume.

Property Name	Definition	Type	Description
• Volume Write Hole Protection Policy**	string (enumeration)		The policy that the RAID volume is using to address the write hole issue.
• File Share Policy**	string (enumeration)		Defines how writes are replicated to the shared source.
