

Swordfish Technical Position Notice

Version 1.0.6

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SNIA Technical Position

May 25, 2018

**The following files are included in this Technical Position Release
(Swordfish_v1.0.6.zip):**

- **Swordfish_v1.0.6_TechnicalPositionNotice.pdf (this file)**
- **Swordfish_v1.0.6_Schema.zip**
- **Swordfish_v1.0.6_Specification.pdf**
- **Swordfish_v1.0.6_UserGuide.pdf**

USAGE

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Revision History

Revision	Date	Changes
V0.5	3/16/16	Initial work in progress release
V0.6	5/24/16	Updated to include content including replication for block services
V0.8	7/28/16	Updated to include content including filesystem schema, json schema
V0.9	8/30/16	<p>First draft of <i>Swordfish Scalable Storage Management API User's Guide</i>. First draft of <i>Swordfish Scalable Storage Management API Specification</i>. Changes to schema:</p> <ul style="list-style-type: none"> • Clarifications to use of Collections vs ResourceCollections and appropriate notation of Read/Write on Collections • Some updates to how LineOfService is represented in ClassOfService (to simplify hierarchy) • Clarifications in File System schemas
V1.0	9/19/16	<p>First Release of <i>Swordfish Scalable Storage Management API User's Guide</i>. First Release of <i>Swordfish Scalable Storage Management API Specification</i>. Schema changes:</p> <ul style="list-style-type: none"> • Simplified StorageServices • Updated descriptions and long descriptions • Changed GeographicScope to FailureDomainScope
V1.0.1	10/12/16	<p>Errata release v1.0.1. Mockup Overview document updated for clarity. Mockups updated to reflect changes in schema. Spec and schema updates:</p> <ul style="list-style-type: none"> • General clean up and formatting consistency • Clarify use of StorageGroup • Detail interactions between DefaultValue and Nullable in schema attributes • Set default values for Boolean attributes • Clarify appropriate EntitySet referencing • Improve descriptions for many schema attributes • Replace IsDefault with reference to ClassOfService in StoragePool and StorageService • Align Location with Redfish model • Change time values to conform to ISO 8601 • Collapse TargetEndpointGroup and InitiatorEndpointGroup into EndpointGroup • Property and enumeration deleted from StorageReplicaInfo to remove redundancy with ReplicaSyncType • Add DefaultClassOfService link to StoragePool and StorageVolume in lieu of ClassOfService.IsDefault • Remove invalid measurement annotation from DataProtectionLoSCapabilities • Moved schedule to Redfish <p>User's Guide:</p> <ul style="list-style-type: none"> • General clean up and formatting consistency • A discussion of unused CoS and LoS entries in ServiceCatalog • Improve purpose for many use cases

Revision	Date	Changes
1.0.2	11/1/16	<p>Errata release v1.0.2</p> <p>Specification and user's guide minor formatting fixes.</p> <p>Clarifications to specification language.</p> <p>Mockups updated to reflect changes in schema.</p> <p>Spec and schema updates:</p> <ul style="list-style-type: none"> Change multiple collections' types from collections (arrays) to ResourceCollections to conform to Redfish usage guidelines: <ul style="list-style-type: none"> Capacity.CapacitySource ProvidingVolumes, ProvidingPools and ProvidingDrives StorageService.StorageService StorageGroups, ClientEndpointGroups and ServerEndpointGroups Change multiple collections' types from collections (arrays) to ResourceCollections to conform to Redfish usage guidelines and move NavigationProperties from Links section: <ul style="list-style-type: none"> EndpointGroup Endpoints FileShare EthernetInterfaces StoragePool ClassesOfService StorageService ClassesOfService
1.0.2a	11/8/16	<p>Schema changes to 5 files to fix include directories to specify http://redfish.dmtf.org/schemas/swordfish/v1 instead of http://redfish.dmtf.org/schemas/v1</p> <p>Updated schedule_v1 schema to 8601 format compliance.</p>
1.0.3	1/24/17	<p>Schema changes:</p> <ul style="list-style-type: none"> Move complex types and enum to versioned namespace Schedule schema: add property json schema fix (Swordfish to swordfish) <p>Specification enhancements, multiple areas</p> <p>User's guide: multiple new use cases and new document section</p>
1.0.4	4/25/17	<p>Errata release with minor updates to schema:</p> <ul style="list-style-type: none"> Move FileShare collection Integrate DMTF and SNIA versions of Volume Fix incorrect property references and update descriptions. <p>Update mockups.</p> <p>User's guide: Update cross-references.</p>
1.0.5	10/3/17	<p>Errata release with updates to schema:</p> <ul style="list-style-type: none"> Simplifications to StorageGroups and EndpointGroups based on implementation feedback. Addition of Swordfish Message Registry Addition of performance metrics, added to block Add DMTF Volume changes: Dedicated Spare collection <p>Fix inconsistencies in mockups.</p> <p>User's Guide:</p> <ul style="list-style-type: none"> Add introductory material to actors and management domain Minor fixes and updates to use cases

Revision	Date	Changes
1.0.6	2/13/18	<p>Specification:</p> <ul style="list-style-type: none"> • Updated Storage Systems model – added notion of Integrated Service Configuration in addition to (and named) Hosted Service Configuration. • Added ComplexType common definition section. • Added/updated common Redfish property definitions. • Updates to conform to new SNIA templates. <p>Errata release with updates to schema:</p> <ul style="list-style-type: none"> • Deprecated use of Swordfish Location schema in favor of Redfish Resource.Location • Added support for PersistentMemory capacity source types • New event message entries • Moved enum and ComplexType definitions to unversioned namespaces (ensures proper json schema version generation from tools), cleaned up references to abstract types and unreferenced versions <p>Removed mockups from release bundle. Refer to snia.org/swordfish and swordfishmockups.com for mockup availability.</p> <p>User's Guide:</p> <ul style="list-style-type: none"> • Add on-demand replication use cases

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Acknowledgements

The SNIA Scalable Storage Management Technical Work Group, which developed and reviewed this document, would like to recognize the significant contributions made by the following members:

Broadcom Limited	Richelle Ahlvers
Dell Inc.	Patrick Boyd
.....	George Ericson
.....	Michael Raineri
.....	Rich Roscoe
Hitachi Data Systems	Eric Hibbard
Hewlett Packard Enterprise	Jeff Hilland
.....	Chris Lionetti
.....	John Mendonca
.....	Doug Voigt
Inova Development Inc.	Karl Schopmeyer
Intel Corporation	Slawek Putyrski
.....	Paul von Behren
Microsemi.....	Anand Nagarjan
Microsoft Corporation	Hector Linares
.....	Jim Pinkerton
.....	Michael Pizzo
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NetApp, Inc.	Don Deel
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ScienceLogic.....	Patrick Strick
VMware, Inc.	Murali Rajagopal