SNIA/DMTF Work Register

Version 1.3

Background and Purpose

The SNIA has been working on the development of Storage related standards based upon DMTF technologies for several years. Much of this work has been contributed back to the DMTF. The aim of this document is to define the liaison relationship between the SNIA and the DMTF.

Introduction

The SNIA launched the Storage Management Initiative to develop standards such as the Storage Management Initiative Specification (SMI-S). SMI-S applies DMTF technologies to provide a complete management solution for interoperable, multi-vendor Storage and Storage networks.

The SNIA Storage Management Initiative includes:

- Storage Management Modelling
- Technology development (e.g. Discovery)
- Interoperability testing of products against SMI-S
- Outbound communications and marketing
- Education and training

The SNIA and the DMTF have also both initiated Cloud efforts and wish to coordinate their respective work in this area.

Benefits of a Liaison Relationship

- Ensures the SNIA and DMTF standards are coordinated and address all storage management requirements, including schema definition and WBEM interoperability
- Promotes SNIA and DMTF standards to member companies
- Fosters SNIA participation at the DMTF Alliance Partner Technical Summit and in various DMTF working groups
- Fosters DMTF participation at the SNIA Symposiums and in various SNIA technical work groups

Brief Description / Scope of Liaison Activity

The purpose of this Work Agreement is to provide a channel for the DMTF to receive requirements, design input and standards review feedback from the SNIA. Similarly, it also provides a channel for the SNIA to receive requirements, design input and standards review feedback from the DMTF.

The DMTF is relying on the SNIA to provide storage management models for the continued development of the DMTF Common Information Model (CIM). This includes but is not limited to the management of Storage Arrays, File Systems

including Network Attached Storage (NAS), iSCSI, Fibre Channel Fabrics, Fibre Channel over Ethernet (FCoE), Serial Attached SCSI (SAS), Host based storage, and Green Power for Storage.

The SNIA is developing standards, models and taxonomy for Cloud Storage. The DMTF is developing standards, models and taxonomy for Cloud Computing. Where possible, the organizations will provide requirements and feedback to each other. Additionally, the respective standards will be cross referenced.

This work register documents the alignment between the SNIA and the DMTF. The DMTF Schema Subcommittee, Platform Subcommittee, and Infrastructure Subcommittee are to be aligned with the SNIA Storage Management Initiative and the related SNIA Technical Work Groups. Also, the DMTF Cloud Incubator Group is to be aligned with the SNIA Cloud Storage Technical Work Group.

- DMTF Change Requests (CRs) are submitted by a DMTF member through the DMTF Working Group or Subcommittee. To ensure that DMTF CRs are valid input from the SNIA, the following fields in CRs are filled in by the SNIA Technical Work Group:
    - Alliance Partner submitting CR request
    - SNIA Alliance Partner vote history
    - Alliance Partner identifier/tracking
- DMTF documents affecting the SNIA Storage Management Initiative will be published by the DMTF as work in progress documents for review by the SNIA. Comments from members of both the DMTF and the SNIA are brought directly to the appropriate DMTF work group or subcommittee. Comments from SNIA members who are not DMTF members are brought into the DMTF through the DMTF Feedback Portal.
    - These DMTF documents includes CRs, Profiles, and Specifications that are not necessarily unique to storage.
    - The SNIA Technical Liaison (or delegate) shall request that these DMTF documents be published as work in progress documents for review in the SNIA.
    - The SNIA Technical Liaison shall attend DMTF TC meetings.
- Joint Face to Face meetings between SNIA Technical Work Groups and DMTF Work Groups may be held.
- The DMTF delegates ownership of Storage and Storage network profiles to the SNIA. In the event that agreement cannot be reached on a given profile, then the "right of first authorship" shall prevail.
    - In the event that either organization adopts as owner a profile developed by the other, the profile shall be adopted "as is," with all changes governed by the change request process of the new owning organization.
    - The DMTF stipulates explicitly that changes made to any SNIA shared profiles adopted by the DMTF shall preserve both interoperability and backward compatibility, except in major version releases.
    - The SNIA stipulates that profile ownership does not imply schema ownership. To the extent possible, the SNIA will continue to use the DMTF CR process to extend the CIM_ namespace, and will use the

resulting classes in its profiles. (This is a result of applying the "right of first authorship" rule mentioned above to CIM.)

- The DMTF and the SNIA will, to the extent possible, align their respective release processes to facilitate the movement of releases through the ANSI and ISO standards processes.

- Each organization is free to copy and extend or modify profiles from the other organization, but should consult with the originating organization before doing so, since it may be possible for the originating organization to accommodate the copying organization's needs.

- The SNIA will make work in progress versions of delegated standards available to the DMTF for review by DMTF members.

- The SNIA should, to the best of its ability, consider conforming to published DMTF document format standards for Schema and Profiles or derivatives thereof. The SNIA has an existing document format standard called the Content Authors Guide (CAG).

- The SNIA will not produce delegated standards that conflict or diverge from existing or proposed DMTF standards.

The SNIA is working on these standards (mandatory entry for each standard):

- Storage Management Initiative Specification (SMI-S)
- Cloud Data Management Interface (CDMI)

Alliance Partner	Spec	Info Mgt Domain	Lead Org	Governing IP Policy	Copyright Holder	Developing Org	Maintaining Org
SNIA	SMI-S	Storage	SNIA	SNIA	SNIA	SNIA	SNIA
SNIA	CDMI	Cloud Storage	SNIA	SNIA	SNIA	SNIA	SNIA

The following SMI-S profiles have been transferred by the SNIA to the DMTF:

- Job Control
- Indications
- Server
- Device Credentials

Any specifications referenced by an Alliance Partner Work Register need to be shared by the DMTF.

- Physical Asset
- Record Log
- Software Inventory
- Software Update
- Battery
- Alarm Device
- Fan
- Power Supply

The SNIA would like to have the DMTF eventually take ownership of the following profiles:

- Security
- Object Manager Adapter

The DMTF and the SNIA will have a process for regularly identifying DMTF Specifications that will be going out for member review, and the SNIA will identify those specifications that it has interest in reviewing for possible incorporation into the standards it is developing.

Periodic Communications of Organizational activities is anticipated.

Informal Interoperability Meetings and Plugfests may be held.

To facilitate incorporation of profiles developed by either the DMTF or the SNIA, XML and other documents that enable machine processing of profiles will be mutually shared.

Short-Term Activities

- Submit CRs necessary to align the DMTF model (CIM 2.11 and beyond) to SMI-S, primarily through the DMTF CIM Core Schema, Network, WBEM Infrastructure and Protocol and Policy Work Groups, and/or make the necessary changes to SMI-S to align it to the DMTF models.
- Move forward the work defined in SMI-S for Security, Discovery, Locking, and Profiles into the DMTF WBEM Infrastructure and Protocol Work Group.
- Coordinate the Standard Message release process for common messages.
- Joint technical meetings on Profile ownership (to build an initial register of Profiles to be shared between the organizations).
- Joint technical meetings on converging the DMTF Publication Users Guide and the SNIA Content Authors Guide.
- Joint meetings on sharing/convergence of tools and testing activities.
    - Including the sharing of the SNIA Content Authors Guide, Schema_2.XSD, and SNIA profile XML files with the DMTF.
- Joint marketing through the SNIA Storage Management Initiative Marketing Committee and the DMTF Marketing Committee.
- Collaborate with SNIA SMI-S Core TWG to support WS-Man binding for SMI-S

Resources Identified / Points of Contact:

Within the SNIA:

SNIA Technical Council Chair (snia-tc-chair@snia.org)

SNIA Technical Liaison to the DMTF (dmtfliaison@snia.org)

SNIA Board Liaison to the DMTF (dmtfboardliaison@snia.org)

SNIA Cross-Marketing Team Chair (cross_marketingteam-chair@snia.org)

Within the DMTF:

DMTF VP of Technology (vp-technology@dmtf.org)

DMTF Schema Subcommittee Chair (schema-sc-chair@dmtf.org)

DMTF Infrastructure Subcommittee Chair (infrastructure-sc-chair@dmtf.org)

DMTF Platform Management Subcommittee Chair (platform-sc-chair@dmtf.org)

DMTF Marketing Committee Chair (marketing-chair@dmtf.org)

DMTF Cloud Incubator Chair (cloud-chair@dmtf.org)

DMTF VP of Alliances (ac-chair@dmtf.org)

Approved by the DMTF Board of Directors; Board Resolution 2010-05-05; on 05/20/2010.