Summary of SMI-S Version 2 Planned Changes

SMI-S Version 2 is largely based on SMI-S Version 1. The first release of SMI-S Version 2 does not include any profiles that are not included in SMI-S Version 1.6.1 (that is, version 1.6.0 plus addenda). However, version 2 represents a major version change. As a result, material that was deprecated in Version 1 has been removed and strategic changes were made in a number of places that break backward compatibility. This is a summary of those changes.

Backward Incompatible Changes

Version 2.0 will include a number of changes that are backward incompatible with Version 1. The planned backward incompatible changes are:

- Version 2 is Protocol Neutral
  Version 1 required implementation of CIM-XML and WS-Management was optional. Version 2 requires implementation of one of the protocols supported by DMTF. Initially this includes CIM-XML and WS-Management, but will eventually include CIM-RS.
- Version 2 uses a new SLP template
  The new DMTF template for SLP advertising of profiles cannot coexist with the previous template. Version 1 required the previous template and Version 2 requires the new template.
- Version 2 synchronizes with DMTF on Job Control
  DMTF has introduced its own Job Control profile that is slightly different from the version 1 SNIA Job Control profile. Version 2 will adopt and specialize the DMTF Job Control profile, which introduces the following backward incompatibility:
  - ModifyInstance is no longer supported on CIM_ConcreteJob
- Version 2 synchronizes with DMTF Profile Registration
  After SNIA introduced its design for profile registration, DMTF introduced its Profile Registration Profile and eliminated the notion of RegisteredSubprofile. In SMI-S Version 2, SNIA will adopt and specialize the DMTF Profile Registration profile, which will introduce the following incompatibilities:
  - CIM_RegisteredSubprofile is no longer supported
  - CIM_SubprofileRequiresProfile is no longer supported
- Version 2 merges Copy Services and Replication Services
  In version 1, Replication Services was added to extend Copy Services. This introduced some synchronization problems between Copy Services and Replication Services. This is being addressed by merging the two profiles. This results in some backward incompatibilities for local copy services, but the result will be a cleaner definition of all copy / replication services.

Deprecated Materials Removed

The following deprecated materials have been removed in SMI-S Version 2:

- WQL Indications (Replaced with CQL indications)
- Disk Drive Subprofile (Replaced by the Disk Drive Lite profile)
- LUN Creation Subprofile (Incorporated into the Block Services Profile)
- Extent Mapping Subprofile (Replaced by the Extent Composition Profile)
- LUN Mapping and Masking Subprofile (Replaced the Masking and Mapping Profile)

- Pool Manipulation Capabilities, and Settings Subprofile (Incorporated into the Block Services Profile)
- Block Services Resource Ownership Subprofile (Experimental profile removed)
- Volume Management Profile (Experimental profile removed)
- Cascading Subprofile (Experimental profile removed)
- Extra Capacity Set Subprofile (Replaced by the Multiple Computer System Profile)
- Cluster Subprofile (Replaced by the Multiple Computer System Profile)
- Indication Profile & Experimental Indication Profile (Replaced by the Indications Profile)
- Security Profile (Deferred to DMTF profiles)
- Authorization Subprofile (Deferred to a DMTF profile)
- Credential Management Subprofile (Deferred to a DMTF profile)
- Security Resource Ownership Subprofile (Experimental profile removed)
- Security Role Based Access Control Subprofile (Deferred to the DMTF Profile)
- Identity Management Subprofile (Deferred to a DMTF profile)
- 3rd Party Authentication Subprofile (Deferred to a DMTF profile)
- Router Profile (Experimental profile removed)
- SB Multipath Management Profile (Experimental profile removed)
- FC HBA Profile (Replaced by the Storage HBA Profile)
- InterLibraryPort Connection Subprofile (Experimental profile removed)

Other Materials Removed

The following other materials are planned to be removed in Version 2:

- SMI Recipe Language (SMIRL)
  The intent is to replace these with Use Cases.
- Disk Sparing Profile withheld
  This profile needs some fixing and will be withheld until fixes can be applied.
- Filesystem Copy Services Profile
  This profile needs some fixing and will be withheld until fixes can be applied.
- Remote Filesystem Copy Services Profile
  This profile needs some fixing and will be withheld until fixes can be applied.
- Library Views Profile
  This experimental profile will be removed
- Partition Tape Library
  This profile needs some fixing and will be withheld until fixes can be applied.