Server, Desktop, Mobile Platforms Working Group (SDMPWG)
Dated 2011-04-25

The information provided below is subject to change and reflects the current knowledge of the Working Group.

1. Management Problem(s) and Environment

The pressure for IT to reduce the costs of maintaining enterprise computing infrastructure continues. Servers (including stand alone, rack mount, blades and partitionable machines), desktop platforms, mobile platforms, and bladed Platforms (herein referred to as "Targeted Platforms") in the enterprise infrastructure drive significant IT cost. There is a desire to create common interfaces between management applications and the Targeted Platforms for in-band, out-of-band, in-service, and out-of-service usages (consistent with definitions in DSP2001). Targeted Platforms implementations have specific cost, resource, and power constraints, so careful consideration must be taken in selecting the right protocol(s) as appropriate for each Targeted Platform.

Managing heterogeneous Targeted Platforms (i.e. from multiple vendors), independent of machine state, operating system state, server system topology and access mechanisms, requires specifications that meet the following needs:

- Standard interfaces that provide a command line protocol-based management of various server system topologies, a Web services-based protocol for all Targeted Platforms, and lightweight protocols, including web-service based protocols, for out-of-band management.

- Common DMTF CIM Profiles (consistent with the DMTF Profile Users Guide DSP1001) covering various aspects of all managed physical system platforms and the capability to create/extend the CIM profiles for Targeted Platforms.

2. Working Group Charter

The SDMPWG is chartered to define a platform independent, interoperable, industry standard management solutions for server platforms, desktop platforms, mobile platforms, and bladed PCs ("Targeted Platforms"), to enable:

1. Basic alerts & events
2. Access to alert, event and other logs – characterize, define content, retrieve and write to logs
3. Remote system power control (on/off/reset) and monitoring
4. Select, control and transfer executable (boot) images
5. Boot process visibility & control and selection and transfer of boot properties and images
6. Platform asset inventory (hardware, firmware, etc.)
7. OS re-imaging and recovery assistance
8. Discovery of Targeted Platforms
9. Provisioning of Targeted Platforms
10. Enumeration of hardware and hardware related software
11. OS present/not present, architected transitions independent of OS
12. Power, cooling and system control, configuration and monitoring

13. **Access to sensor data, including presence, temperature and other sensors.**
14. **Access to logs – characterize, define content, retrieve and write**
15. **View and set status indicators (LED, text LCD, alarms etc.)**
16. **Configuration of service processors and their components/services.**
17. **Media & KVM redirection**
18. **Correlation of multiple Management Access Points (MAP)**
19. **OS recovery assistance**
20. **Access to security information, such as accounts, groups and security modules**
21. **Network Interface monitoring and control including wired and wireless.**
22. **IO interconnect technologies such as PCI, SMBus, Bluetooth, USB and other interconnects.**

By performing the following tasks:
- **Define an architectural model for Targeted Platform management**
- **Leverage DMTF protocols and identify lightweight management stack(s) suitable for out-of-band management**
- **Define platform independent, interoperable, industry standard management data models, profiles and registries for the aspects of managing the physical aspects of system platforms that are within the scope of the management solutions described above.**
- **Define mechanisms for secure management**
- **Define mechanisms for scalable management**
- **Define mechanisms for scalable discovery & correlation**

The SDMPWG will also own the following tasks related to its area of focus:
- **Definition of the DMTF Management Initiative DASH**
- **Definition of the DMTF Management Initiative SMASH**
- **Work with the System Management Forum (SMF) to develop a compliance program for DASH & SMASH**

Examples of physical system platforms include, but are not limited to:
- **desktop platforms**
- **mobile platforms**
- **bladed PCs**
- **Servers spanning the spectrum of:**
  - Stand alone, blades, racks and partitionable systems
  - Enterprise & Telco
  - Low cost to mission critical

In the course of authoring profiles, the WG will identify schema additions and modifications as necessary and work with the Schema Sub-Committee to incorporate these changes.

The focus of the WG is management of Targeted Platforms for in-band, out-of-band, in-service, and out-of-service (consistent with definitions in DSP2001) environments. This includes interactions with the operating system that are necessary to assist in hardware management. Direct management of a running operating system and its associated applications is out of scope.

The Server, Desktop, Mobile Platforms WG reports to the Platform Management Subcommittee.

Alliance Partnerships

- **SNIA (Storage Networking Industry Alliance: Storage Management Initiative)**

- **TCG (Trusted Computing Group)**
- **TGG (The Green Grid)**
- **CompTIA (Computing Technology Industry Association)**
- **Consortium for Service Innovation**
- **SA Forum (Service Availability Forum)**
- **Blade Systems Alliance**
- **UEFI**

3. Reliance/Coordination with other WG Models

The SDMPWG will work closely with all of the Working Groups and sub-committees under the TC.

4. Prior Work

2.

3. **DSP0217**   **SMASH Implementation Requirements**

4. **DSP0232**   **DASH Implementation Requirements**

5. **DSP0244**   **IPMI PET-to-CIM Message Registry Mapping Specification**

6.

7. **DSP0800**   **Base Server Profile SM CLP Command Mapping Specification**

8. **DSP0801**   **CLP Service Profile SM CLP Command Mapping Specification**

9. **DSP0802**   **SMASH Collections Profile SM CLP Command Mapping Specification**

10. **DSP0803**   **SM CLP Admin Domain Profile SM CLP Command Mapping Specification**

11. **DSP0804**   **Modular System Profile SM CLP Command Mapping Specification**

12. **DSP0805**   **Sensors Profile SM CLP Command Mapping Specification**

13. **DSP0806**   **Device Tray Profile SM CLP Command Mapping Specifications**

14. **DSP0807**   **Pass-Through Module Profile SM CLP Command Mapping Specification**

15. **DSP0808**   **CPU Profile SM CLP Command Mapping Specification**

16. **DSP0809**   **System Memory Profile SM CLP Command Mapping Specification**

17. **DSP0810**   **Record Log Profile SM CLP Command Mapping Specification**

18. **DSP0811**   **Simple Identity Management Profile SM CLP Command Mapping Specification**

19. **DSP0812**   **Physical Asset Profile SM CLP Command Mapping Specification**

20. **DSP0813**   **Boot Control Profile SM CLP Command Mapping Specification**

21. **DSP0814**   **Fan Profile SM CLP Command Mapping Specification**

22. **DSP0815**   **Ethernet Port Profile SM CLP Command Mapping Specification**

23. **DSP0816**   **Host LAN Network Port Profile SM CLP Command Mapping Specification**

24. **DSP0817**   **IP Interface Profile SM CLP Command Mapping Specification**

25. **DSP0818**   **DHCP Client Profile SM CLP Command Mapping Specification**

26. **DSP0819**   **DNS Client Profile SM CLP Command Mapping Specification**

27. **DSP0820**   **Telnet Service Profile SM CLP Command Mapping Specification**

28. **DSP0821**   **SSH Service Profile SM CLP Command Mapping Specification**

29. **DSP0822**   **Power Supply Profile SM CLP Command Mapping Specification**

30. **DSP0823** **Power State Management Profile SM CLP Command Mapping Specification**
31. **DSP0824** **Chassis Manager Profile SM CLP Command Mapping Specification**
32. **DSP0825** **Shared Device Management Profile SM CLP Mapping Specification**
33. **DSP0826** **Software Inventory Profile SM CLP Command Mapping Specification**
34. **DSP0827** **Software Update Profile SM CLP Command Mapping Specification**
35. **DSP0828** **Text Console Redirection Profile SM CLP Command Mapping Specification**
36. **DSP0830** **Role Based Authorization Profile SM CLP Command Mapping Specification**
37. **DSP0831** **Platform Watchdog Profile SM CLP Command Mapping Specification**
38. **DSP0834** **Computer System Profile SM CLP Command Mapping Specification**
39. **DSP0835** **Indicator LED Profile SM CLP Command Mapping Specification**
40. **DSP0836** **KVM Redirection Profile SM CLP Command Mapping Specification**
41. **DSP0842** **OS Status Profile SM CLP Command Mapping Specification**
42. **DSP0843** **Media Redirection Profile SM CLP Command Mapping Specification**
43. **DSP0845** **Base Metrics Profile SM CLP Command Mapping Specification**

DSP1004   **Base Server Profile**
DSP1005   **CLP Service Profile**
DSP1006   **SMASH Collections Profile**
DSP1007   **SM CLP Admin Domain Profile**
DSP1008   **Modular Systems Profile**
DSP1009   **Sensors Profile**
DSP1010   **Record Log Profile**
DSP1011   **Physical Asset Profile**
DSP1012   **Boot Control Profile**
DSP1013   **Fan Profile**
DSP1014   **Ethernet Port Profile**
DSP1015   **Power Supply Profile**
DSP1016   **Telnet Service Profile**
DSP1017   **SSH Service Profile**
DSP1018   **Service Processor Profile**
DSP1019   **Device Tray Profile**
DSP1020   **Pass-Through Module Profile**
DSP1021   **Shared Device Management Profile**
DSP1022   **CPU Profile**
DSP1023   **Software Inventory Profile**
DSP1024   **Text Console Redirection Profile**
DSP1025   **Software Update Profile**
DSP1026   **System Memory Profile**
DSP1027   **Power State Management Profile**
DSP1028   **Alarm Device Profile**
DSP1029   **OS Status Profile**
DSP1030   **Battery Profile**
DSP1035   **Host LAN Network Port Profile**
DSP1036   **IP Interface Profile**
DSP1037   **DHCP Client Profile**

DSP1038	**DNS Client Profile**
DSP1039	**Role Based Authorization Profile**
DSP1040	**Platform Watchdog Profile**
DSP1052	**Computer System Profile**
DSP1058	**Base Desktop and Mobile Profile**
DSP1061	**BIOS Management Profile**
DSP1070	**Opaque Management Data Profile**
DSP1074	**Indicator LED Profile**
DSP1075	**PCI Device Profile**
DSP1076	**KVM Redirection Profile**
DSP1077	**USB Redirection Profile**
DSP1085	**Power-Utilization Management Profile**
DSP1086	**Media Redirection Profile**
DSP1088	**WiFi Port Profile**
DSP1102	**Launch In Context Profile**

44. **DSP2001** **System Management Architecture for Server Hardware Whitepaper**

45. **DSP2014** **Systems Management Architecture for Mobile and Desktop Hardware White Paper**

46.

DSP8007	**Platform Message Registry**
DSP8021	**BIOS Attribute Registry**
DSP8030	**DASH XML Schema**
DSP8039	**SMASH XML Schema**

1. Current Work – Overview, Deliverables and Timeline

- **Extend existing profiles with Indications support**
- **Deepen the functionality provided by existing profiles**
- **Add additional profiles and SM-CLP Mapping Specifications, as needed**
- **DSP0232** **DASH Implementation Requirements**
- **DSP2014** **Systems Management Architecture for Mobile and Desktop Hardware White Paper**
- **DSP0217** **SMASH Implementation Requirements**
- **DSP2001** **SMASH White Paper**
- **Develop Machine Readable Profiles for WG-owned profiles, as needed**

2. DMTF Contacts

Chair: sdmpwg-chair@dmtf.org

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47. **To join the DMTF and/or the WG, see http://www.dmtf.org/join/ and**
http://www.dmtf.org/apps/org/workgroup/sdmpwg/