Security Protocols and Data Models (SPDM)
Working Group Charter
Dated 2022-07-13

The information provided below is subject to change and reflects the current state of the Working Group charter within the DMTF.

Management Problem(s) and Environment

Computer platforms include many components that contain mutable elements. Each component presents a potential vector for attack against the component itself, or even the use of a component to attack another component in the platform. These components are accessed via the control plane and the host processing unit as well as the data layer, such as buses and fabrics.

To defend against these attacks, DMTF has released the Security Protocol and Data Model (SPDM) Specifications to enable conformant implementations to challenge a component to prove its identity and integrity. Additional functions such as key exchange and authorization are also necessary to enable an enhanced solution.

This technology has become the crux of platform security for the industry and DMTF's many alliance partners have sought out the DMTF to work it into their ecosystem.

The SPDM WG creates platform security standards and technologies, which complement DMTF's standards such as the [Redfish® Standard](#) from the Redfish Forum, PMCI, SMBIOS, as well as remote access protocols that are defined in the other DMTF groups.

Working Group Charter

The focus of SPDM WG is to enable security for the platform, be it on the control plane, the data plane or other infrastructure. This includes components & communication over the control plane & the data plane including interactions with the host processing unit and various devices as well as buses and fabrics.

The SPDM WG reports to the Technical Committee.

The SPDM WG is chartered to provide specifications for:

- Protocols, interfaces, and data models to support attestation, authentication, authorization, key exchange and other interactions necessary to perform secure operations & intercommunication between components to establish and maintain trust.
    - This includes responsibility for DSP0274, DSP0277, DSP2058 as

well as other informational material as appropriate.

- o This includes any bindings for SPDM that are not specifically included in the charters of other DMTF bodies.

- Develop tools for SPDM WG standards development & conformance:

  - o Publish the source code for tools when appropriate.

  - o Develop tools to exercise management components which implement SPDM specifications.

  - o Provide scripts to simplify testing.

  - o Open source projects must be aligned with DMTF IP and indemnification policies.

- Develop open source sample implementations for SPDM WG standards

  - o Publish the source code when appropriate.

  - o Open source projects must be aligned with DMTF IP and indemnification policies.

- Interact with approved industry and DMTF Alliance Partners as necessary for the purpose of meeting the chartered objectives and goals.

The SPDM WG is not authorized to develop export control standards.

Reliance/Coordination with other DMTF Groups

The SPDM WG will work, as required, with:

- The PMCI WG to ensure features are compatible with its charter where needed. Specifically, PMCI related binding specifications (e.g. DSP0275 & DSP0276) are under the purview of the PMCI WG.
- The Redfish Forum and SMBIOS WG to ensure the internal interfaces and protocols defined by the SPDM WG enable and support the production of the external interfaces and protocols defined by these other working groups and forums.
- The SPDM Code TF is expected to be a task force under the SPDM WG.
- The Security Response TF under the Technical Committee on an as needed basis.

Links

- To join the SPDM Working Group, DMTF members see https://members.dmtf.org/wg/spdm/dashboard .
- To see public schedules and deliverables, see https://www.dmtf.org/standards/spdm.
- To contact the chairs, DMTF members see spdm-chair@dmtf.org. All others can contact admin@dmtf.org
- To join the DMTF, see http://www.dmtf.org/join .

To join the DMTF and/or the Security Protocols & Data Models Working Group, see http://www.dmtf.org/join/ and http://members.dmtf.org/apps/org/workgroup/spdm/.