**OpenFabrics Management Framework Working Group (OFMFWG)**

**Working Documents**

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# Charter

High-speed network fabrics, in both HPC and Enterprise computing systems link resources, such as, memory, storage, and accelerators to processing nodes. Each version and vendor brand of high-speed network fabric has specific tools, features, controls, and monitoring that are unique to the fabric. Current network fabric management and control can be difficult to implement for fabrics in a dynamic environment.

The OFMFWG is chartered to develop simple and uniform tools to aggregate, subdivide, and control network fabrics using existing management standards and open-source technologies. This will include developing common use-case models and proposing enhancements to management standards as needed. This work will consist of:

1. An extensible, technology-independent, open-source framework that provides orchestration, configuration, and management, to fabric management interfaces and devices.
2. Extensible, open-source RESTful interfaces aligned with orchestration and workload management application needs for high-performance fabric management services.
3. Documentation, presentations to enable developers to build clients and provider agents to interface with the OpenFabrics Management Framework. Documentation that describes e.g., concept, components, interfaces, functionality, of an OpenFabrics Management Framework will include:
   * interactions between components including startup, connection, handshaking, operation, and shutdown of aspects of the OFMF.
   * aspects of authentication, the OFMFWG will enable plug-in security models but will not develop security models or examples in this WG
   * architecture and sample implementation(s) to enable domain-specific policies
   * example domains of interest including:
     + system and component composability
     + memory-based fabrics
     + storage-based fabrics
4. Open-source reference prototype(s)
5. Feedback to DMTF and SNIA requesting changes to schema and APIs

# Practices and Procedures

The OFMFWG is expected to rely primarily on traditional open-source methods for developing software. The following set of practices and procedures are intended to provide tools for use by the working group in achieving consensus in fulfillment of its charter.

1. Definitions
   1. **Member** – A Member of the OFA
   2. **Eligible OFMFWG member** – A member organization of the OFMFWG who is eligible to vote during OFMFWG proceedings and meets the following criteria:
   3. a Member of the OFA
   4. currently in good standing in the OFMFWG as determined by attendance.
   5. **Participant, Contributor, Consultant** – Any organization which is not a member of the OFA.
   6. **Quorum** – A simple majority of the “eligible OFMFWG members”
2. Fundamental principles for the OFMFWG
   1. The OFMFWG operates under the direction of the OFA Board of Directors and in conformance with the OFA’s bylaws.
   2. This document constitutes the policies and procedures established by the OFMFWG and approved by the Board.
   3. Each Eligible OFMFWG Member Organization is entitled to one vote. Section 4 of the Practices and Procedures defines eligibility requirements.
   4. OFMFWG meetings will be conducted consistent with Robert’s Rules of Order.
   5. Participation in the OFMFWG is open to all at the discretion of the OFMFWG Co-chairs. Membership in the OFA is not required.
3. Participation requirements, eligibility
   1. A member in “good standing” means that the member has attended meetings in at least six of the last eight weeks in which at least one meeting is scheduled. The current meeting counts as one of the meetings in the eight weeks in which meetings are scheduled. Once lost, a member is restored to good standing at the beginning of its third consecutive week meeting. A new OFMFWG member achieves good standing at the beginning of its third consecutive week meeting attendance.
4. OFMFWG work products and associated practices and procedures
   1. The OFMFWG conforms to the requirements in the current OFA policies.
   2. The primary means of communication among OFMFWG Members is through a combination of regularly scheduled meetings and the use of an email reflector. There are no special requirements to join either a regularly scheduled meeting or to join the reflector.
   3. Source-code will be developed, produced, and managed using the practices of the open-source community. The OFMFWG operates under the BSD 3 clause for licensing and publication of source-code.
   4. The OFMFWG may also produce work products that are “not code” (e.g., presentations, white papers, proposals) including proposals, written or verbal, presented to the work group for its consideration.
   5. Licensing and publication of “not code” work products produced on behalf of the OFMFWG is controlled by the CC-by-4.0 Creative Commons Attribution license.
   6. At the discretion of the Co-chairs, certain of these “not code” work products may be subjected to a vote by eligible OFMFWG members. This may also include verbal proposals offered to the work group during the normal course of business. Typically, but not always, these votes are used to assist the work group in achieving consensus on certain key points. Since the OFMFWG is intended to operate on consensus to the greatest extent possible, voting on specific issues or topics is expected to be rare.
   7. Proposals for public presentation or publication of these “not code” work products shall be emailed to the OFMFWG reflector no later than 48 hours prior to the 1st meeting in which it will be discussed prior to approval by OFMFWG consensus.
   8. Voting may only take place at a meeting where quorum of Eligible OFMFWG members has been achieved, or via email if properly noticed by the co-chairs.
   9. To receive a vote, a written proposal must be distributed to the work group reflector no later than 48 hours prior to the voting deadline. The purpose of this rule is to encourage good decision making by providing member companies an opportunity to review and internally discuss the proposal prior to voting.
   10. In the spirit of continuous forward progress, once voted, re-opening discussion on a previously adopted “not code” work product requires a two-thirds vote of eligible OFMFWG members.
   11. Once discussion has been re-opened, a previously ratified decision can be reversed or modified by a simple majority vote.
   * The objective is to make it easy to achieve consensus, but once achieved make it hard to reverse. This is very helpful in preventing unnecessary re-visits of topics that had seemed to be closed and completed.
   * The definition of what constitutes “re-opening” is a judgment call by the Co-chairs
   1. Co-chairs are given the tools necessary to maintain the orderly flow of business:
   * The co-chairs may require each OFMFWG member to designate a primary and secondary voting representative. This is not intended to impede a member’s participation in a vote but may be used by the Co-chairs to establish orderly meetings and an orderly voting process. In this case, attendance at meetings is counted as attendance by primary and/or secondary representatives.
   * To maintain orderly meetings, the Co-chairs may, in unusual circumstances, limit participation in the discussion of these proposals to the member’s primary and alternate representatives.
5. Required two-thirds voting majority levels
   * Removal of a Co-chair
6. General documentation requirements:
   * The Co-chairs are responsible for capturing meeting minutes, and for developing work products (e.g., mailing list access and contents).
7. Administrative tools for developing work products:
   * These are to be determined by the co-chairs.

# OFMFWG Intellectual Property Rights (IPR) Policy

OFMWG will be contributing to an existing collaborative, open-source project within the meaning of the OFA’s draft IPR Policy.

# OFMFWG leadership

* Per OFA Bylaws:
  + the OFMFWG co-chairs are elected by the Board.
  + A Co-chair can be removed by a two-thirds vote of eligible OFMFWG members
* Co-Chair: Michael Aguilar – Sandia
* Co-Chair: TBD