Terms of Reference for the NAFEMS SDM Working Group

Technical Area

Engineering simulation data encompasses the data, models, processes, documents and metadata intrinsic to performing modeling, simulation, and analysis. Simulation Data Management (SDM) provides for the management of data objects and metadata at all levels of granularity and abstraction, including design and analysis parameters, requirements, and results. SDM solutions are integrated with other systems and databases that manage engineering and product data. SDM systems are available for managing and executing a wide range of modeling and simulation data and processes, across the breadth of engineering disciplines, supporting a heterogeneous analysis environment. Integration of design, test, and manufacturing data with modeling, simulation and analysis is supported.

Mission

The mission of the NAFEMS Simulation Data Management Working Group (SDMWG) is to provide a vendor-neutral, end-user driven consortium that promotes the advancement of the technology and practices associated with the management of engineering simulation data management and processes. This includes education, communication, promotion of standards, and development of requirements that will have general benefits to the simulation and analysis community with the identification of benchmarks and major strategic issues (grand challenges).

Working Group Bylaws

1. The working group should aim to meet a minimum of four times per year.

2. Potential new members should express their interest to the NAFEMS representatives via the 'Get Involved' contact form on the SDM web page. Membership of the working group is at the discretion of the voting members of the working group.

3. Contributions from working group members can include:

    a. significantly participating in discussions or other activities on the collaboration tools

    b. attending and actively participating in working group meetings,

    c. sending relevant comments or reports on agenda items to the chairman in good time for the meeting,

    d. volunteering for and carrying out actions arising from the meetings,

    e. carrying out reviews of journal papers.

4. If a member does not contribute for more than 12 months then their membership of the working group may be terminated at the discretion of the Chair.

5. A member will be considered a voting member if they have attended a minimum of 50% () of the meetings in the prior calendar year and have contributed to SDMWG activities (see point 3).

6. At least two-thirds of the working group membership shall consist of current NAFEMS members. A check on the consistency of the working group will be made following submission of the NAFEMS annual report.

7. The position of Chair is open for review every 3 years on the anniversary of the initial appointment. There is no requirement for the role to be rotated. Only voting members of the working group (see point 5) may vote or be eligible for the role of Chair. The Chair should not be directly associated with a vendor.

8. The Chair will be assisted by a Vice Chair (or Co-Chair, as preferred) to be appointed by the voting members. Only voting members of the working group (see point 5) may vote or be eligible for the role of Vice/Co-Chair. The Vice/Co-Chair will be expected to support the Chair as required, including chairing meetings when necessary, participating in group tasks and taking a share in the responsibility for helping the group to achieve its objectives. The Vice/Co-Chair is expected to attend the majority of group meetings and to allocate adequate time for preparation of chairing a meeting or leading a group discussion/task.

9. Minutes will be produced and circulated within two weeks of the working group meeting by a NAFEMS representative or by an individual nominated by the Chair.

Vendor Presentation Guidelines

Solution providers (software vendors) are welcome to describe their Simulation Data Management solutions at monthly meetings of the NAFEMS SDM Working Group.

Presentations and demos, if applicable, should last no longer than one hour, with at least 15 minutes of this allotted time being dedicated to Q&A.

Meetings are recorded, both video and audio using the NAFEMS WebEx facility. Meeting recordings may be made available to NAFEMS members at the discretion of the SDMWG.

Presentations should be biased to a technical audience of simulation experts and should be focused on the technical aspects of the solution offering. When possible, reference customers should be identified.

Presentations should include coverage of the following areas:

- User access and authorization methods (e.g. LDAP).
- Security
- Capability to enforce regulations (e.g. export compliance, ITAR).
- Databases supported (e.g., Oracle, DB2).
- Available PDM integrations (e.g., Enovia, Teamcenter, Windchill, Aras).
- Available HPC job submission integrations e.g. PBS Pro, LSF).
- Available PIDO integrations (e.g. Isight, Heeds, ModeFrontier).

If you are interested in presenting your company's solutions to the SDMWG, please send an email to sdmwg@nafems.org.