VMAP:
A new Interface Standard for Integrated Virtual Material Modelling in Manufacturing Industry

Material Data Exchange Interface Standard Community Web meeting

29 January 2020 at 18:00 (CET), 12:00 (EDT)

Summary of Meeting

Place: Web meeting

Attendees: Fabio Santandrea (RI.SE), Gino Duffett (NAFEMS GmbH, VMAP),
Klaus Wolf (Fraunhofer SCAI, VMAP), Lambert Russcher (Reden, VMAP),
Laurence Gaston (Transvalor), Priyanka Gulati (Fraunhofer SCAI, VMAP),

Apologies: Anas Yaghi (MTC)

Summary: 6 people in total (VMAP Project 4, External 2)
5 entities in total (VMAP Project 3, External 2)

Documents attached:
   [1] "ITEA-VMAP_SC_20200129_Community" the presentation made at the meeting.

1. GinoD welcomed all attendees and outlined the Agenda of the "short" meeting:
    - VMAP-SC community formalisation
    - VMAP-SC meeting and event plans for 2020
    - Questions & Answers

2. GinoD then presented an overview of the VMAP Standards Community (VMAP-SC) size, 90
    entities in database, and external use cases discussions, 15 interest parties.
    The process for the VMAP-SC legal and organizational creation was briefly presented; see [1]
    pages 2-5. Points for discussion:
    - There will be no costs charged for usage of VMAP, nor for re-distribution within processes or
      software. However, there will be a "membership fee" for those entitles who wish to develop
      VMAP or to influence the continuity of VMAP and to maintain the necessary management of
      the Community and its projects and work.

3. GinoD presented the plans for 2020 that include:
    -   International Conference on CAE Interoperability on 13-14 May 2020, see [1] page 6.
        The conference will start with a plenary session after lunch on 13 May and end at lunch or early afternoon on 14 May.
        About 30 abstracts have been received.
        Gino D encouraged attendees to promote the conference by emailing the link to persons who may be interested and please include link on company website if possible.
    -   VMAP-SC meetings, see [1] page 7, possibly
        o   F2F in May 2020 at the conference,
        o   Web meeting possibly in April 2020 (if not at the conference) or September 2020.
    -   the Final Project Presentation on 22 October 2020 at Philips Drachten (The Netherlands) that will be open to all and include a factory tour at Philips Consumer Lifestyle.

4. Further discussion was related to Transvalor's implementation of VMAP. Transvalor are committed to this but it requires some agreement on using the IO software library.
    Action: KlausW and GinoD will look at the Licence Agreement draft and modify to suit (since there is no official VMAP-SC yet).
    Action: LaurenceG will look at their NDAs to see if something is adequate.

5. GinoD thanked everybody for their participation and closed the meeting.

-------end of document-------

ITEA VMAP

**A new Interface Standard for Integrated
Virtual Material Modelling in Manufacturing Industry**

VMAP Standards Community

Gino Duffett (NAFEMS)

Meeting January 29, 2020

VMAP

VMAP Standards Community

- **Standards Community database (to date):**
  - 90 entities, 72% external to project
  - 35 confirmed interest, 50% external to project

- **External use cases**
  - Manufacturing Technology Centre (UK)
  - Autodesk Moldflow
  - Forge (Transvalor)
  - 12 other interested (downloaded documentation)

VMAP Community Members:

VMAP has already been directly integrated into CAE tools like MSC-Marc, MSC-Nastran, CadMould, PAM-RTM, PAM-Crash, Open-FOAM, COMPRO and RAVEN as well as independent/neutral translation tools like envyo that supports the LS-DYNA suite, Digimat, FiberMap, MpCCI and the ANSA pre-processor.

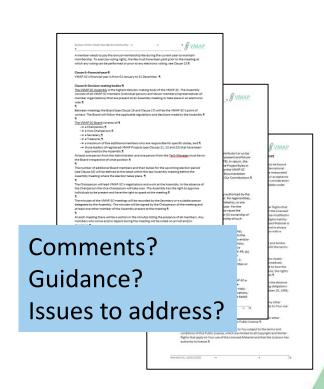The VMAP project objectives are endorsed by Audi, Bosch, EDAG, Rikutec and Philips.

VMAP Standards Community formalization

DRAFT

- **Structure:**
  - NAFEMS – administrative
  - Fraunhofer SCAI – technical management
  - VMAP SC Board
    - a Chairperson,
    - a Vice-Chairperson,
    - a Secretary,
    - a Treasurer,
    - a maximum of five additional members,
    - leaders of registered VMAP Projects.
  - Other members

- **September 2020 (latest)**
  - VMAP project partners agree and sign
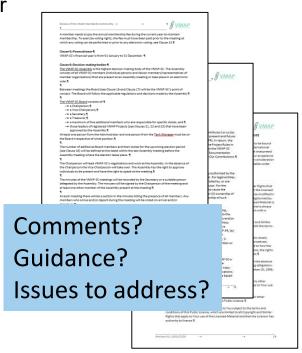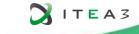 - Open to all other entities and experts

Comments?
Guidance?
Issues to address?

VMAP Standards Community formalization

VMAP

- **Member types:**
  - *contributing members*
    - actively working on VMAP Projects and/or carrying out VMAP maintenance using a "VMAP Contributor Licence",
  - *user members*
    - utilizing the VMAP Standards and VMAP IO Software Libraries within their software or simulation processes wishing to maintain a close collaboration with VMAP-SC,
  - *expert members*
    - promoting the VMAP Standard
    - those contributing to the maintenance (software, documentation, etc.) of the VMAP Standard.
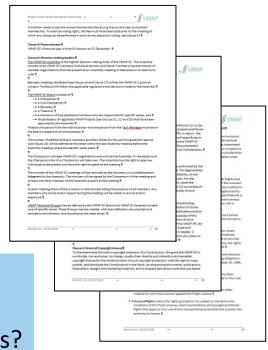
Comments?
Guidance?
Issues to address?

VMAP Standards Community formalization

DRAFT

- **By Laws & Licence documents**
  - Draft version
  - NAFEMS + Fraunhofer agreement pending
  - VMAP partners latest August 2020

- **Other issues**
  - Creation of association
  - IP ownership
  - Funding

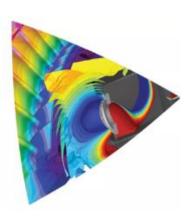Comments?
Guidance?
Issues to address?

- **International Conference on CAE Interoperability 2020**
  - 13-14 May 2020 in Bamberg, Germany (about 1 day long)
  - Overlap ~½ day with NAFEMS DACH conference
    - Start: Plenary session after lunch, 13 May 2020
    - End: lunch or mid-afternoon, 14 May 2020
  - About 30 abstracts received
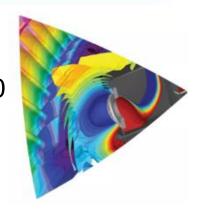 - Please promote with companies and experts

VMAP Standards Comunity 2020 meetings

www.vmap.eu.com

- **Possible Face-to-Face meeting**
  - International Conference on CAE Interoperability 2020
  - 13-14 May 2020 in Bamberg, Germany

- **Web meetings**
  - Week starting 20 April 2020 (if no F2F during May)
  - Week starting 12 Sept 2020

- **Final project presentation**
  - 22 October 2020 in Drachten, The Netherlands
  - Philips Consumer Lifestyle factory tour

Comments?

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Linked in ® Group

www.vmap.eu.com

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