WG-CompleteModelStorage-Meeting-18-04-2023.txt

Meeting Date/Time: 18.04.2023 / 15:00

Participants: SCAI, HTW Berlin, BMW, DLR Institutes BT and FA/SY

Agenda:

1. UseCase Working Document – Contents and Contributors
        Intention of this dococument
                Single source for all relevant information
                Process from a UC driven demand to a well designed extension of
the standard
                Concrete details
                Could be published as 'VMAP Standards Development Handbook'
                Editor: Fraunhofer SCAI (with good support from UCs and software
experts)
        UC specific details
                context and definitions: background, CAE workflows, formats and
data flow
                requirements: solutions for model setup / mesh definitions / BCs
/ Loads / …
                tests and benchmarks: small, medium sized and large realistic
cases and data
                expected benefits and KPIs: setup times / interoperability / …..
        List of UCs:
                BETA CAE/BMW: Connector Elements
                DLR BT: Gas Turbine Aero Engines
                BAM: Refrence Models for Concrete Components ?
                Others: HagenStiftung, CEC PIONEER, …
        General aspects
                General technical requirements: file formats, IT issues,
documentation, …
                VMAP extension concepts: gradual expansion of the current
version
                Implementation plan
                        IO-Lib: who will implement what parts …
                        Code Wrapper/Translator for input decks: …
                Test cases: small and simple to be used for a variety of codes

2. Discussion – Initial (BETA's) proposal for a connector elements
        SCAI presented a test implementation of BETA's initial proposal
        Discussion again - how concrete or abstract should the standard be

3. Next Meeting May 16, 2023
        UC owner: provide first input in shared document
        Fraunhofer: looking for further use cases
        BMW/HTW: storage philosophy – detailed RBEs or 'semantic' welding
points…
        DLR Oliver: Some CGNS Concepts for (Full) Mod