Meeting Date/Time: 20-06.2023 / 16:00 Participants: SCAI, HTW Berlin, BMW, DLR Institutes BT and FA/SY Agenda: 1. Concrete vs. abstract specification --> 1st implementation concepts Current Level Specification v1.0 for CAE Results Write VMAP .h5 File Write Mesh to File VMAP IO Library New Level for 'abstract' input decks Some SMILE-like examples Library of Guidelines / Modlling Interpreter / User Interface meshes are already there General Workflow Combined abstract & discretised model issues most modelling issues should be defined on abstract level those model components which have similar concepts in (all) codes could be also standardised on discrete level we then need additional Guidelines which generate VMAP format instead of native code formats 2. Use Cases We need use cases with clearly defined needs for standardisation (on abstract and/or discrete level) and concrete ideas of the expected benefits Use Cases BMW: tbd, door crash/NVH case.. DLR Oliver on turbine blades BAM use case on concrete (Beton) modelling (Klaus will contact them) 3. Specification concept to be done after we have analysed the use cases 4. other solutions Novus Nexus is working on similar 'abstract model definitions' https://novusnexus.com/resources FATXML data (metadata) from the design process through to the parts level https://www.beta-cae.com/events/c7pdf/10B 3 DEITERS.pdf FATXML-Format Version V1.2 R4 (vda.de) https://www.vda.de/de/aktuelles/publikationen/publication/fatxml-format-versionv1.2\_r4 5. Next Meeting August 15, 2023 More detailed use cases

Draft workflow 'How to generate an abstract input deck?'