

## Data management with ANSA & META with extension to CFD

<b>Training</b>	Data management with ANSA & META with extension to CFD
<b>Duration</b>	1.5 days (12 hours)
<b>Level</b>	Intermediate
<b>Who should attend</b>	CAE analysts who want to keep the different versions and representations of their pre-processing files organized in a common data depository.
<b>Training description and objectives</b>	<p>This course demonstrates how to organize data (parts or includes) involved in CAE pre-processing, as well as synchronize the model with the design evolution.</p> <p>Upon course completion, participants will be able to :</p> <ul style="list-style-type: none"> <li>– Read product structure files coming from PDM/PSL systems,</li> <li>– store and manage all data in a common data depository,</li> <li>– create and save alternative representations of the model parts,</li> <li>– switch between user defined and build in representations,</li> <li>– check for new versions of parts and update a model.</li> </ul>
<b>Prerequisites</b>	Participants should have an engineering background. Basic knowledge of the software, ANSA part manager and compare tool, is necessary.
<b>Language</b>	English <i>*ask for more languages</i>

Course content is subject to change without notice.

Course content may be adjusted to audience requirements or background.



## Suggested topics

### Day 1

- Parts management
  - a) Introduction
  - b) Enabling data management
  - c) Reading product structure from PDM/PLM systems
  - d) Initial model set up
  - e) Saving the common representation
  - f) Alternative representations set up
  - g) Creating and saving alternative representations
  - h) Switching between representations
  - i) Build-in representations
  - j) "Alternative" representations
  - k) "Available" representations
  - l) Modifying parts that exist in the ANSA DM
  - m) Notification for part modifications
  - n) Study version
  - o) CAD versions
  - p) Connections comparison
  - q) Meshing new parts
  - r) Parts comparison
  - s) Saving representation
  - t) Version updates check
  - u) Keyword files from suppliers

### Day 2

- DM for CFD
  - a) Introduction
  - b) Defining/using Parts/Groups/Subsystems for CFD modelsPreparation of the includes for archival
  - c) Interface Boundaries
  - d) Storing parts/subsystems of watertight models in DMSaving includes in ANSA DM
  - e) Moving/Morphing existing parts to obtain different set-upsAdding new include versions in DM
  - f) Building Configurations
  - g) Building Simulation Models
  - h) "Hanging" results under Simulation Models/Runs with META
  - i) Creating post-processing sessions in META
  - j) Storing in DM reports/images/2d graphs of results from META sessions
  - k) Navigating and comparing results from different simulation models



- META

- l) Addition of solver results files to a Simulation Run
- m) Recording of session for a Simulation Run to extract and store Reports entities (images, videos, etc) in DM
- n) Sessions run for Simulation Runs
- o) Reports view (images, videos, etc) of Simulation Run, stored in DM
- p) Comparison of Reports of Simulation Runs stored in DM