



Modular Model Management

Training	Modular Model Management in ANSA
Duration	2 days (16 hours)
Level	Intermediate
Who should attend	CAE Engineers working in model building teams
Training description and objectives	<p>This course provides an insight to the tools and methodologies that are employed for the efficient modular management of Simulation Models in ANSA.</p> <p>Upon course completion, participants should be able to:</p> <ul style="list-style-type: none">- Work in a data sharing environment managed with ANSA DM- Build subsystems from Parts- Build subsystems from existing include files- Understand the key concepts of the Smart Assembly methodology- Prepare efficiently Subsystems for inter-modular assembly- Assemble a complete Simulation Model consisting of several Subsystems- Validate the integrity of Simulation Models- Integrate new Subsystem versions to existing Simulation Models and create new iterations
Prerequisites	Participants should have a basic knowledge of the software.
Suggested follow-up courses	Modular Run Management
Language	English <i>*ask for more languages</i>

Course content is subject to change without notice.
Course content and duration may be adjusted to audience requirements or background.



Suggested topics

Day 1

Introduction to Modular Run Management

- Model management based on Model Browser Containers
- Run architecture
- Introduction to Data Management
 - What is a Data Management system
 - Types of data handled in ANSA DM
 - Metadata (Primary/Secondary attributes)
 - Data storage
 - Data model
- Overview of the Model Browser
 - ANSA Parts and their types
 - Creation and handling of Part attributes
 - ANSA Subsystems
- Overview of the DM Browser
 - Navigating through the DM contents
 - Performing queries
 - Tracking and visualization of DM object relations
- DM update status
- Basic settings and the Modular Environment Profile

Subsystem Management in ANSA

- Subsystem creation
 - Create subsystems from parts
 - Create subsystems from existing include files
- In-depth description of Subsystems and their contents
- Intra-modular assembly
- Subsystem preparation for the inter-modular assembly
 - "Smart Assembly" methodology
 - Marking of interfaces (interface points and interface sets)
- Management of Ids on Subsystem level
- Validation of Subsystem with the out-of-the-box Build process
- Save Subsystems in DM
- Subsystems in the DM Browser
- Creating new Subsystem iterations



Day 2
Simulation Model Management in ANSA
<ul style="list-style-type: none">- Simulation Model creation and assembly<ul style="list-style-type: none">- Using Subsystem definitions from DM- Simulation Model creation- ANSA Connector entities- The Connecting Subsystem- Build and Save Simulation Model in DM<ul style="list-style-type: none">- The default Build Process for Simulation Models- Simulation Model save options- Simulation Models in the DM Browser- Inter-modular assembly scenarios- Adaptation on Simulation Model level<ul style="list-style-type: none">- ANSA Adapters and Adapting attributes- Adaptation of Ids- Adaptation of position- Simulation Model updates and maintenance
Exercise
Assemble a Simulation Model using Smart Assembly