Advanced post-processing with META for NVH analyses

Training	Advanced post-processing with META for NVH analyses
Duration	1 day (8 hours)
Level	Advanced
Who should attend	CAE analysts who analyze NVH models and have experience of post-processing with META.
Training description and objectives	This advanced course demonstrates the advanced META tools and techniques for evaluating/calculating NVH results. Upon course completion, participants will be able to : – Compare FE models and experimental data with different reference coordinate system. – modify units of a model, – correlate modes and frequency responses using the MAC - COMAC and AutoMAC tools and automatically create a report, – calculate FRFs and transient responses. – calculate Modal Participation factors and create 3d results, – calculate modal frequency responses for an assembled model, – calculate connection forces - response connection sensitivities, – perform transfer path analysis (TPA) and connections optimization, – identify global and local modes, – load strain energy results and apply Fourier transformations and filtering on curves.
Prerequisites	Basic knowledge of the NVH principles and META is required.

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Suggestions	This course can be combined with the trainings:
	  − ANSA for NVH analyses pre-processing
	  − Introduction to post processing with META
	  − META basics for NVH analyses post-processing trainings

Language	English, German, French *ask for more languages*

Suggested topics
Day 1
− Data transformation (modify units – match models with different reference coordinate systems) − Modal correlation (MAC – COMAC – AutoMAC tools and MAC report) − Modal response (2d/3d nodal/elements results, modal participation factor, FSI coupling) − FRF assembly (connection forces, transfer path analysis, connections optimization, response connection sensitivities, contribution analysis) − Identify global-local modes − Strain energy bar chart − 2d plot advanced options (Fourier transformations, curves filtering)

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