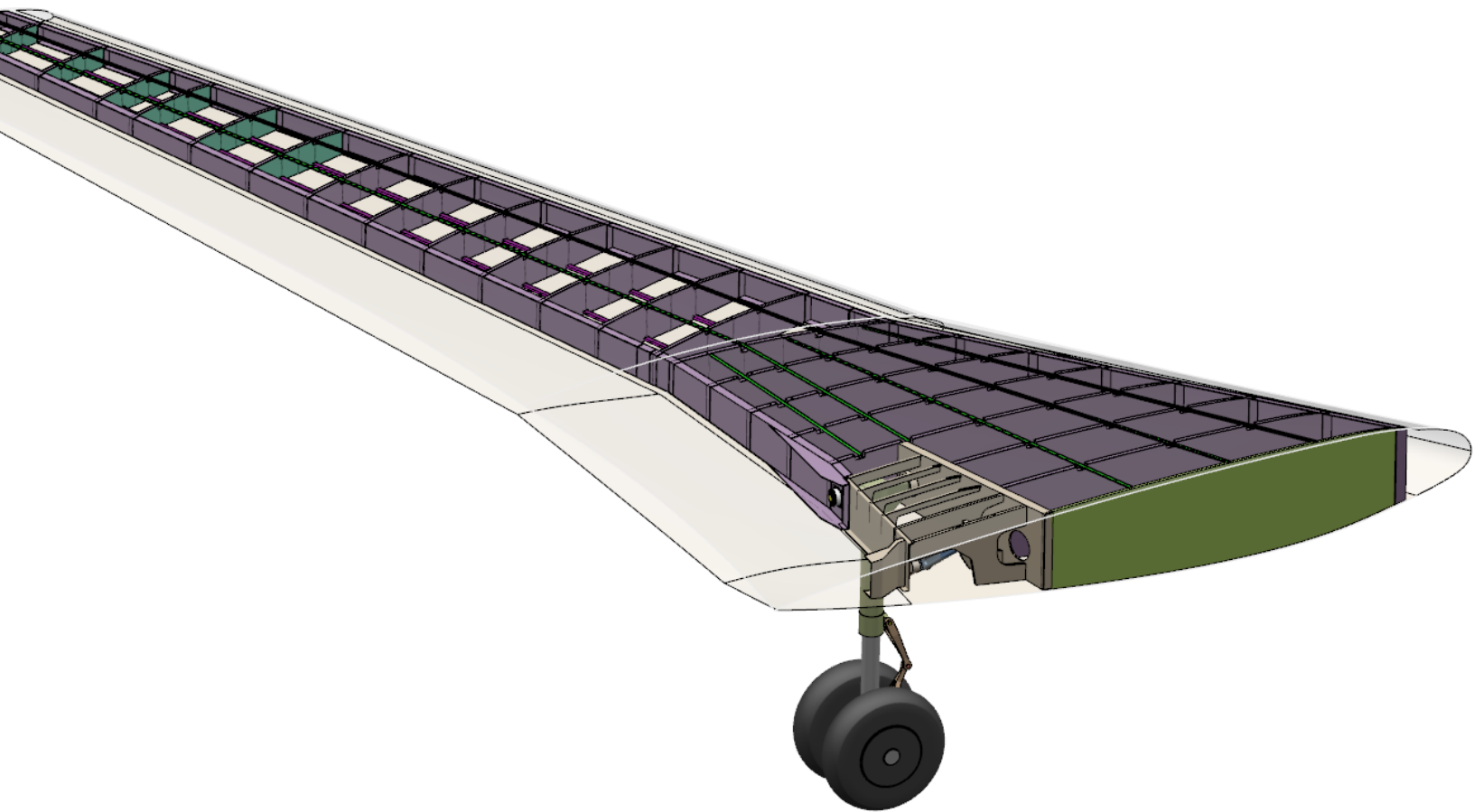




3DEXPERIENCE®

ASSEMBLY MODELING SPECIALIST

3DEXPERIENCE USER ROLE



EASILY MANAGE MODEL STRUCTURE FOR LARGE ASSEMBLIES OF PARTS AND MESHES

Create high quality finite element models using Batch Modeling breakthrough technology

Assembly Modeling Specialist enables the user to easily manage model structure for large assemblies of parts and meshes, either created on the **3DEXPERIENCE®** platform or in other 3rd party tools. Automated creation of finite element model representations based on Meshing Rules, or User-Defined Procedures or imported from an external mesher is enabled in addition to management of links between assemblies, parts, meshes and documents. It is now possible to create high quality finite element models using Batch Modeling breakthrough technology, including the automated generation of idealized geometries that can be reused between several simulations.

Collaborative preparation of large-scale, multi-level assemblies leveraging multiple teams and locations

Full traceability of the simulation model is ensured by the **3DEXPERIENCE** platform

Automatic generation of simulation models via 'fire and forget' execution on HPC

Less time spent looking for geometry, part assembly information, fastener data, etc. due to the collaborative nature of **3DEXPERIENCE**.

User Role Highlights

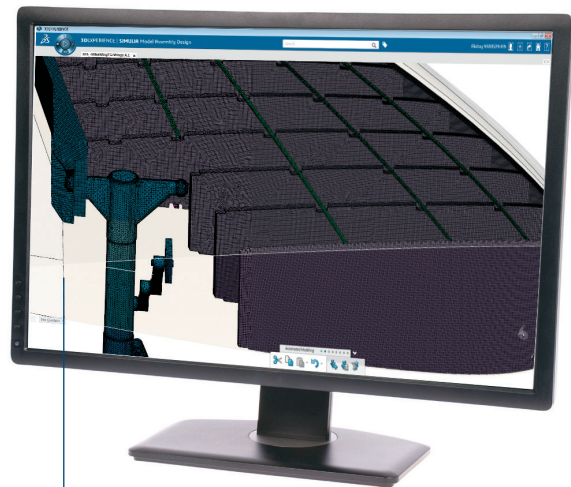
- Generative environment for 1D-2D-3D modeling
- Define and leverage meshing and modeling rules, rapidly generate on HPC
- Automated model creation for large assemblies
- Multiple FEM representations per part to maximize reusability between disciplines
- Import/export and manage models from external sources or convert to native features for use in simulations
- Multi-level Assembly of FEM representations for large configured models
- Impact graph and links management tools
- Execution reports
- Possible customization via Scripting (VB, Python) and C++ API

ROLE BENEFITS

- Collaborative preparation of large-scale, multi-level assemblies leveraging multiple teams and locations
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- Less time spent looking for geometry, part assembly information, fastener data, etc. due to the collaborative nature of **3DEXPERIENCE**.



The Automated Modeling tool allows the user to define a set of meshing rules to different parts in the assembly and mesh them by running a batch process.



Hex elements can be created for complicated structures by importing user procedures. For fairly simple parts, meshing procedures can be used directly to mesh the part.

Our **3DEXPERIENCE®** platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3DEXPERIENCE®** Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 210,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.

