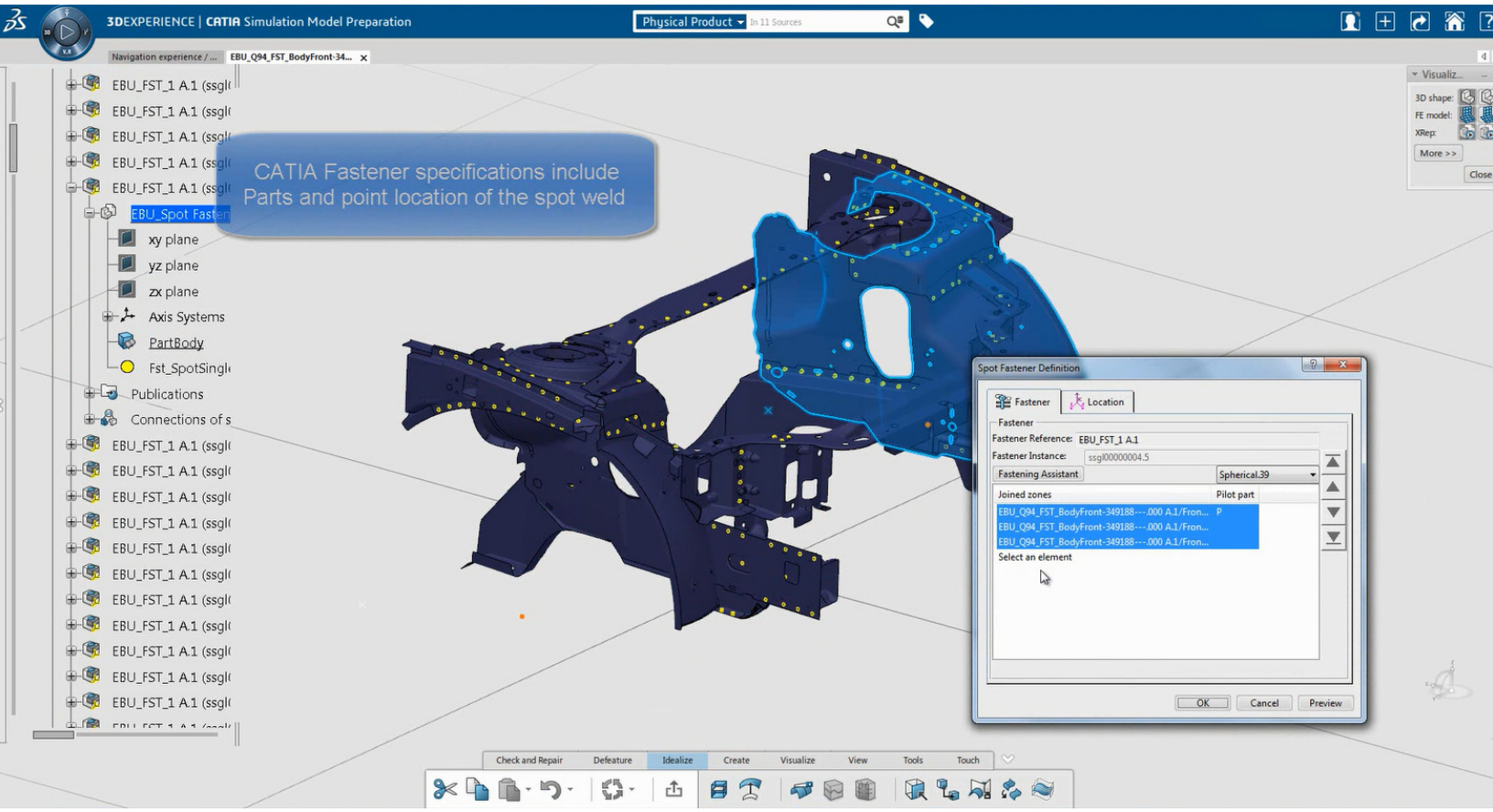
DASSAULT SYSTEMES

SIMULIA

3DEXPERIENCE®

FINITE ELEMENT MODELING SPECIALIST

3DEXPERIENCE USER ROLE



BUILD LARGE-SCALE, MULTI-LEVEL ASSEMBLIES LEVERAGING MULTIPLE TEAMS AND LOCATIONS

Easily create Finite Element models for small or large assemblies, or import them from 3rd party tools, and manage them on the 3DEXPERIENCE® platform

The Finite Element Modeling Specialist role specializes in the creation and/or management of large and complex finite element assemblies requiring automated modeling techniques and the collaborative efforts of several engineering teams. Finite Element Modeling Specialist allows Specialist users to define procedures through a scripting language, thus capturing the company's modeling standards and best-practices, which can be shared with other users across the enterprise on the **3DEXPERIENCE** Platform.

Provide Product Development, Mechanical, Design, and Simulation Engineers the expert tools needed to prepare advanced simulations.

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

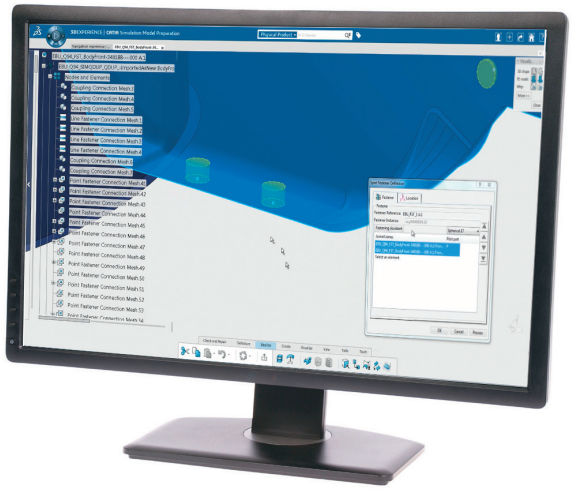
Less time spent looking for geometry, part assembly information, fastener data, etc. thanks to the collaborative nature of **3D**EXPERIENCE.

User Role Highlights

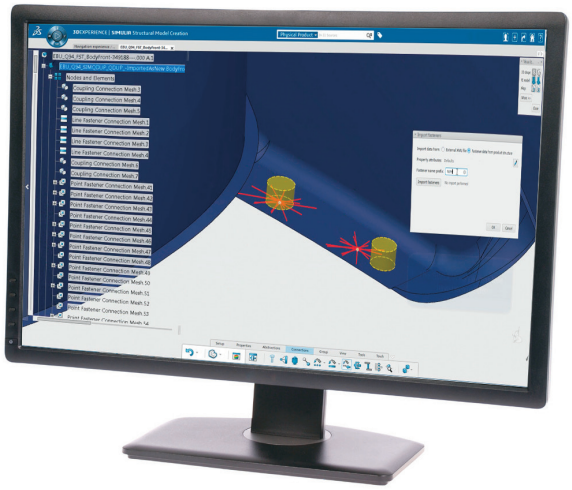
- Contains all the features needed to create, edit and manage Finite Element models, with breakthrough technologies especially adapted for large assemblies including
  - Batch Modeling
  - Assemblies of FEMs
  - Management of external representations
- Import and export models created with external meshing tools, allowing our customers to leverage the **3D**EXPERIENCE Platform to assemble their models without changing their existing meshing tools.
- Collaborative Large model assembly management for building assemblies of models
- Rule based modeling for high quality meshing based on defined best practices
- Manage and assemble models generated from external sources

New in R2017x

- Mid-surface extraction enhancements
- New cutting operator for solid face partitioning
- Robustness enhancements to automatic defeaturing
- Improved treatment and processing of holes
- Shareable FEM representations for analysts to ease collaboration & sharing



With Finite Element Modeling Analyst, spot welds defined in CATIA can be utilized to build the simulation model.



Finite Element Modeling Analyst allows customers to define and manage best-practices for interconnection definition and abstraction, including spot welds defined in CATIA.

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

Dassault Systèmes, the **3D**EXPERIENCE® 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**.

3DEXPERIENCE®

DASSAULT SYSTEMES | The **3D**EXPERIENCE® Company

Americas
Dassault Systèmes
175 Wyman Street
Waltham, Massachusetts
02451-1223
USA

Europe/Middle East/Africa
Dassault Systèmes
10, rue Marcel Dassault
CS 40501
78946 Vélizy-Villacoublay Cedex
France

Asia-Pacific
Dassault Systèmes K.K.
ThinkPark Tower
2-1-1 Osaki, Shinagawa-ku,
Tokyo 141-6020
Japan