Simpack Rail is a software application tailored to the specific requirements of the rail sector and is the world-wide market leader for rail vehicles multibody system simulation. Simpack Rail is used to simulate the dynamics of all kinds of railway vehicles.
Our 3DEXPERIENCE® platform powers our brand applications, serving 11 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 250,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.

APPLICATIONS
- Derailment safety
- Critical speed
- Passenger comfort
- Profile and track optimization, wear and RCF
- Gauging
- Driveline and braking
- Switches and crossings

HIGHLIGHTS
- Unlimited flexibility
- Easy assembly of multi-car trains from submodels
- Powerful track editor
- Each wheel treated independently
- Scalable detail and complexity
- Batch jobs
- Automatic analysis reports

FEATURES
- Detailed and accurate (online) rail-to-wheel contact model, non-elliptic contact
- Multiple contact patches per wheel
- Fast and robust solver
- Linear and non-linear analyses
- Importation of Flexible Bodies from FEM codes
- Powerful control systems software interfaces
- Easy implementation of user specific code

INTERFACES TO
- FEM software
- Control software
- Fatigue analysis software
- CAD software
- In-house software
- Optimization tools
- Fluid dynamic simulation tools

OPERATING SYSTEMS
- Windows and Linux