

CAD PERFORMANCE IMPROVEMENT

BACKGROUND

NedTrain is a specialist in the field of train maintenance and provides the maintenance of the rolling stock in the Netherlands for various carriers of passengers and goods. Refurbishment & Overhaul (R&O) Haarlem provides, among other things, overhaul, conversion and modernization of trains, trams and metros.

CHALLENGE

Due to rapidly increasing CAD performance problems with large assemblies and a difficult multi-CAD exchange with suppliers, the deadline for a major modernization project for trainsets was jeopardized. Replacing workstations and upgrading the NX CAD software were not an option in view of the available time. settels savenije PLM services has been requested to carry out an analysis of the performance issues and develop and solutions to solve them.

APPROACH

A crash team with representatives of Engineering, IT and CAD specialists has inventoried and analyzed the issues. In parallel, performance measurements were started on reference assemblies to make improvements measurable. The collected issues were clustered around: IT infrastructure, CAD application and way-of-working. The priorities were determined on the basis of an impact analysis of possible solutions.

RESULT

The following solutions have been introduced:

- Optimization of the NX settings used
- Optimized way-of-working for large assemblies
- Instruction Engineers in the new way-of-working
- Introduction of an exchange protocol for suppliers
- New method for STEP-conversions

Measured from the reference assemblies, the following has been realized:

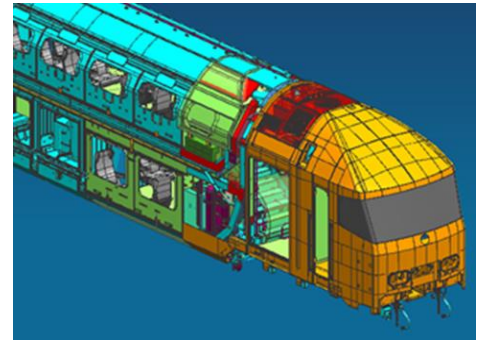
- Reduction assembly loading times : 40-70%
- Reduction CAD file sizes : 25-80%

In addition, the quality of the exchanged CAD data has greatly improved. This enabled termination of the crash project after just two months and the deadline for the modernization project was no longer at risk.



MORE INFORMATION?

Want to know more about our expertise and what we can do for you? Contact Wim Ottenhoff, Managing Consultant settels savenije PLM services, telephone: +31 6 221 58 720



Role Settels Savenije PLM services

- CAD expertise
- Analyses performance issues
- Realisation and introduction solutions



settels savenije PLM services

Achtseweg Zuid 211

5651 GW Eindhoven

The Netherlands

T: +31 (0) 40 8512000

E: wim.ottenhoff@sttls.nl

W: www.sttls.nl/plm