

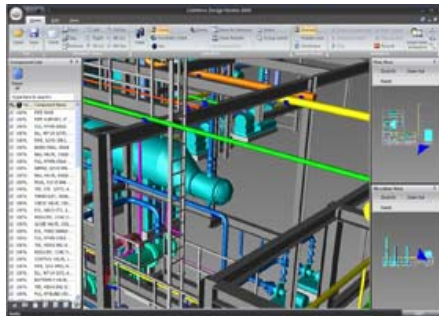


"COADE has enjoyed a close technical relationship with the team at Tech Soft 3D since 1998 when we first began to rely on their HOOPS graphics platform. When a business opportunity arose for COADE to develop a high-performance plant design review tool, we immediately turned to the HOOPS team, who provided us with excellent performance with large models, superior service and a responsive development team"

Thomas J. Van Laan, PE

Company Brief

COADE, Inc. is a provider of software for multiple plant design and engineering disciplines. The company's aims are simple, that design and engineering should share relevant information seamlessly, thereby maintaining accuracy and improving efficiency. COADE's product line conforms to those goals and includes: CAESAR II for pipe stress analysis software; PV Elite for pressure vessel and heat exchanger design and analysis; CADWorx Plant Design Suite for intelligent plant design; and TANK for the design and analysis of oil storage tanks.



The Challenge

COADE has always looked for ways to provide its users with the best performing plant design and engineering tools available. For 3D modeling, one of the biggest challenges was to give project stakeholders, who did not have access to the native CAD package, the ability to query, visualize, navigate and produce quick and accurate mark-ups from within the design model. To provide this functionality COADE and NavisWorks signed an

agreement bundling each seat of CADWorx Plant Professional with a seat of NavisWorks Roamer. So what happened? In 2007 Autodesk acquired NavisWorks which led to channel distribution changes, new product mixes, and the eventual removal of this bundling option. The challenge now was to provide new users with tools to address their design review needs and, more importantly, to provide existing end-users with capabilities that they had come to rely on, and to do so quickly!

The Solution

COADE decided to develop their own product, CADWorx Design Review. For help they looked to their long term partner, Tech Soft 3D, who had been extending their HOOPS graphics platform to handle the rendering of large models in the plant, building and mechanical markets. After thorough testing, it became clear that HOOPS could indeed handle the pressing demands for performance. Also important was file format integration to provide the data access required to query the plant model and display its underlying data. In addition the dedicated HOOPS engineering team gave COADE the ability to go from conception to release in the compressed development time they had available to them.

The Results

- CADWorx Design Review is able to handle extremely large DWG files while still achieving real-time rendering performance.
- COADE was able to create a high-performance application with a sophisticated user interface in a much shorter amount of time.
- Sitting on-site with HOOPS engineers significantly sped up the development time and incorporated a broader set of initial functionality than would otherwise have been possible.
- COADE hit their release target, delivering a market ready solution to 1,500+ existing users.
- Licensing advantages allowed COADE to greatly improve profit margins for this solution.

Business Profile

Product(s) Using
HOOPS
CADWorx Design
Review, CAESAR II,
PVElite, CodeCalc.

More Info
www.coade.com

Industry
Plant Design & Analysis

TS3D Products
HOOPS