

Verity from ClearEdge3D and Excitech used by Interserve on Ingenuity House project

Interserve is an international support services and construction group, which specialises in design, construction, equipment, facilities management and frontline public services. After being exposed to the revolutionary features of the new Verity software in 2016, Interserve has been working with **Excitech** and **ClearEdge3D** as a beta tester, becoming one of the first contractors to move away from traditional verification techniques and develop ‘near’ real-time verification.

The Verity software, developed by ClearEdge3D, analyses laser scan point clouds of recently constructed work and compares it against the design or fabrication models to determine the accuracy of the constructed elements.

“Verity is a great tool which is supporting us in validating and verifying the accuracy of construction information on our projects. The prospects are enormous.

From intelligently identifying any variances against our construction tolerances to driving the production of good quality ‘as-built’ information, this fits in with our vision of delivering best value to our customers using digital construction methods.”

Senthil Arjunan,
Interserve’s National BIM Manager

Verity is fully integrated with Autodesk Navisworks so it can be easily incorporated into any projects or workflows that leverage Navisworks for 3D coordination. It offers a robust reporting engine that disseminates the critical variance data to all stakeholders associated with the project.

“During the construction of Ingenuity House (Interserve’s new Midlands Regional Headquarters) the ability to generate an ‘as installed’ Navisworks model of the steel frame meant potential issues could be rectified earlier and more efficiently - all within a day of scanning!” explained Sam Delo, Design Engineer at Interserve.

The Challenge

Before using Verity, Interserve was surveying samples of specific critical beams for accuracy of install after the steel erector was ready to hand over an area of steelwork. As this was a manual process, there’s a risk of missing out-of-tolerance steelwork which could prove critical later on. This on-site verification of installed items was not easy to manage and involved a considerable amount of manual recording and input. Checking and confirming the position of different elements, after the steel erectors have erected and checked the steelwork, has always been a time consuming exercise.

The Solution

The Verity Quality Assurance workflow has proved to be considerably more efficient and provides more accurate results.

“The software is user-friendly and doesn’t require a considerable amount of training to be able to use it independently.” added Sam Delo.

The Result

A means of intelligently checking design intent models against the as-installed steelwork, this is supporting the team in identifying variances against tolerances and accurately tracking construction progress and quality thus avoiding financial implications. This ‘as-installed’ steelwork model has the added value of planning for future works on site, with greater certainty and coordination. This verified and validated information helps Interserve delivering a true record of information at handover to their clients and end-user teams.

“Since using Verity we are able to reduce survey time while ensuring improved subcontractor compliance” said Sam Delo, highlighting this aspect as a major benefit of Verity.

Having already seen the benefits on three live projects, Interserve intends to utilise Verity on all appropriate BIM projects, moving forwards this sits neatly within their portfolio of digital construction tools.

To explore the cost and time saving potential of Verity and to trial the software, please contact Excitech.