

Pointfuse Showcases New Scan-to-BIM Workflow at Digital Construction Week



At this year's Digital Construction Week, Pointfuse demonstrated a new scan-to-BIM workflow, aimed at bringing reality capture to building information modelling (BIM) and virtual design and construction (VDC) practitioners. Pointfuse software converts the millions of individual measurements captured by laser scanning and photogrammetry into usable 3D mesh models. The ability to classify objects within Pointfuse, both automatically and manually, has had a huge impact on how as-built data is used within the construction workflow.

New features also on show at Digital Construction Week, which took place from 16-17 October at Excel, London, included streamlined classification to ensure maximum efficiency and multicore processing for unlimited scalability. Specifically designed for BIM,

asset and Facility Management, and 3D reality capture, Pointfuse is set to transform workflows across a range of digital construction applications.

Processing time and computer power

"Pointfuse makes laser scanning much more accessible and usable," commented Mark Senior, regional sales director at Pointfuse. "Due to enormous data files, processing time and computer power are the main barriers to using laser scanner data outputs. Using Pointfuse removes these obstacles, allowing users to easily create intelligent 3D models that are more compatible with BIM software."

[Pointfuse](#) now includes a new streamlined workflow which makes object classification easy, using IFC templates and shortcuts to ensure maximum efficiency. This ability to classify objects within Pointfuse has had a huge impact on how as-built data is utilized within digital design workflows; being able to quickly compare specific as-built objects with the design enables more accurate clash detection, reducing the number of false clashes being flagged.

Compatibility with onward workflows

IFC (Industry Foundation Classes – an open format data model that is intended to describe architectural, building and construction industry data) templates can also be created and edited for specific applications. With applications including architectural, MEP and HVAC, selected objects can be classified and mapped to ensure compatibility with onward workflows.

Pointfuse also includes a new conversion engine which uses multicore processing to manage and enable unlimited point cloud conversion to provide real scalability. In addition, Pointfuse's mesh models are intelligently optimized, reducing the working data size by a factor of up to 100, making them easy to share with online 3D collaboration platforms, such as [BIM 360](#), [Revitzo](#), [3D Repo](#) and [Trimble Connect](#).