iConstruct™

FOR AUTODESK™ NAVISWORKS™

www.iconstruct.com

Jason Dodds
303.903.4291
jdodds@dfourinc.com
www.dfourinc.com

iConstruct's powerful Building Information Modeling (BIM) technology is creating a revolution in design and construction. In collaboration with Autodesk Navisworks, iConstruct allows information stored in BIM models and project management systems to be extracted, organized and integrated into one intelligent, multi-layered virtual model. iConstruct models transform a 3D visual with the critical 4th and 5th dimensions of time and cost. This means greater accuracy, powerful reporting, lower costs and scheduling benefits across any construction project. iConstruct is available in three different versions to support your business needs.

Data Management

iConstruct's data management and reporting tools are at the core of the iConstruct's capabilities. Together, these tools consolidate data from Navisworks® models and external data sources to generate a standardized data platform to power and enhance your BIM.

The **Integrator** tool overcomes the data management challenges of working with varying design platforms and standards by enabling the consolidation of data from all models, both native and external. It has a cleaner, simpler display to improve communication to project stakeholders and can support the delivery of models to project standards through the renaming and standardization of property fields.

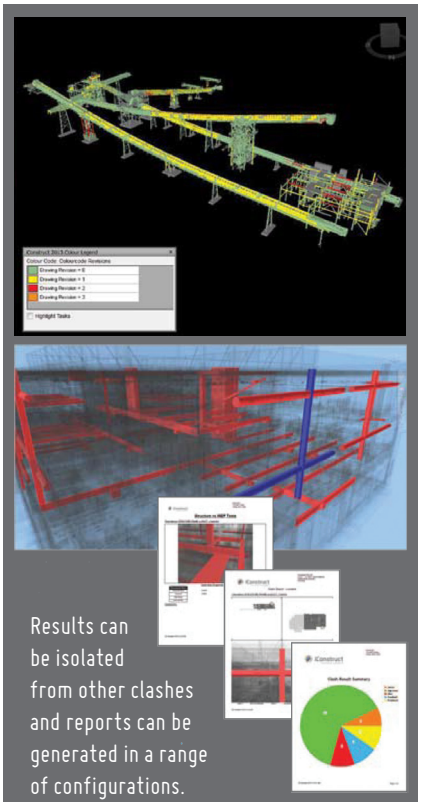
Datalink establishes a live link to external data sources such as Excel®, Access® and ODBC, so that models are updated in real time with the latest information. This capability is further strengthened with the Append Data tool's user-friendly interface which gives project stakeholders the power to add and modify properties on the fly. Users can apply colors and transparency to elements as they are updated to help with tracking of changes.

Export Data facilitates quick data extraction from models and presents the information in various formats including Excel®, Access® and PDF, while Report Writer produces more sophisticated formats, calculations and charts to truly harness the value of the data rich models. Reports can also be standardized to ensure communication is clear and accessible to all users within the project team.

Open File is an intuitive tool that links additional information, such as supporting drawings, manuals, specifications and any other related documentation, with their Navisworks® models. Once mapped, users can retrieve this information when required.

Color Code

Color Code Reporting provides a live visual analysis of project status based on data and information that is collected externally or in the field. Connecting to many external data sources (through Excel®, Access® and ODBC), Color Code Reporting applies custom conditions and queries to provide a visual presentation and reports of what is happening on the project, enhancing communication to all team members.



Results can be isolated from other clashes and reports can be generated in a range of configurations.

"iConstruct allows us to add value by giving us the ability to modify a design and cost the change immediately compared to a week or more in the old 2D world"

Paul Nunn, Senior Design and BIM Manager, Thiess

Clash Tools

Complementing Navisworks® Clash Detection, this tool improves the efficiency of managing clash results, through isolation of clashes in particular sections of a model by clash status or level. It can save many man hours by prioritizing clashes by count, so objects with the highest clash counts can be investigated first. Communication to project teams on clash information can be exported to Excel® or efficiently managed through ReviewTRACK.

ReConstruct

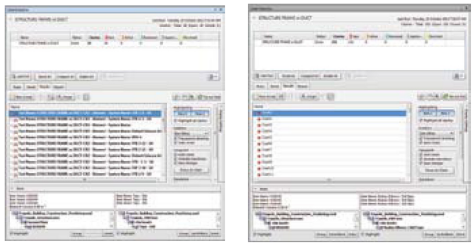
ReConstruct is an innovative and powerful tool providing the flexibility to reorganize the structure of models to suit specific requirements or project standards, regardless of the design software used. ReConstruct provides a cleaner display of data from some of the common industry exchange formats like IFC and PDMS. ReConstruct also allows users to select a property by which to group by and export a restructured nwd file. This option can ignore hidden geometry and create 'crops' of models, or merge the contents of groups to reduce the number of objects in the model.

Clash Management Suite

Optimize your clash detection review process with iConstruct's Clash Management Suite by empowering greater efficiency in the sorting, grouping and grading severity of clashes.

Complementing Navisworks® Clash Detection, iConstruct's Clash Manager provides a comprehensive tool set that allows design and construction professionals to apply better methodology and practices to managing clash results. iConstruct's Clash Manager can be used to automate grouping and management of clashes by using properties contained within the Building Information Model, in turn, saving time and money compared to traditional Clash Management workflows.

Grouping of results not only can be automated by using the BIM data, but also sorted by various other data associated to the clash e.g. the severity distance, clash instance count and location. This functionality will enhance processes to reduce costs and delays in project delivery caused by clashes in design and construction.



Clash results before (left) and after Clash Manager

Communication of these results can also be streamlined through the use of iConstruct's enhanced reporting and collaboration tools, iConstruct Clash View Report and ReviewTRACK.

iConstruct Clash View Report

iConstruct's Clash View Report streamlines and enhances the communication process by delivering an advanced report engine, allowing design and construction professionals to be able to create their own clash report templates.

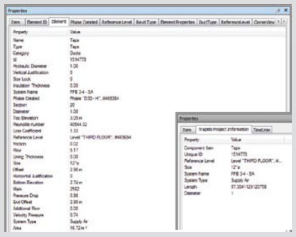
With its extensive features, the advanced report engine provides a number of benefits to suit any stakeholder requirements:

- Include any property contained within clashing elements of the Building Information Model to improve communication within project teams.
- Include Clash results data, like status, comments and assignment to support management of clashes.
- Group and sort functionality to prioritize and compile related issues for resolution.
- Support for graphs and charts to provide high level reporting to senior management on performance of Clash Management processes.
- Better visuals with customizable viewpoints and clash location markers to enhance communication of clash location.

iConstruct Lite

Greater efficiency for data management within Navisworks® at your fingertips. iConstruct Lite is the perfect entry level application for industry professionals.

Integrator

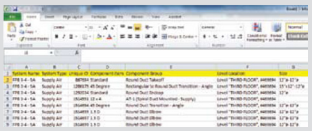


Integrator delivers a powerful tool that consolidates all model information to provide a cleaner and simplified display, improving communication to all project stakeholders. Integrator can also help support the delivery of models to project standards, through the renaming and standardization of property fields.

Datalink

Build data rich models with iConstruct's Datalink by incorporating all project data contained in existing enterprise systems, external databases and reports. Datalink is not only easy to set up, but provides a live link to these data sources so that models can be updated with the latest information on demand.

Export Data



A quick and easy reporting tool that provides users of any skill level the ability to export data into a Microsoft® Excel® report, harnessing the value of data rich models used on projects. Templates can be saved for Microsoft® Excel® reports to provide users with efficiency to produce similar reports when and as required.

Append Data

Through a user friendly interface, Append Data gives project stakeholders the power to be able to add and update properties on the fly, when working with models in Autodesk® Navisworks®. Append data can also apply colors and transparency to elements as their properties have been updated to help with tracking of changes.

Open File

Open File provides an intuitive tool that allows industry professionals to deliver more information with their Navisworks® models, to include supporting drawings, manuals, specifications and any other related documentation. Once mapped to the model, these documents (of any file type) can quickly be retrieved when and where required.

iConstruct Authorized Reseller

Contact DFourInc for an iConstruct demo, competitive pricing, training, support and Navisworks® process integration.

Jason Dodds | 303.903.4291 | jdodds@dfourinc.com | www.dfourinc.com

iConstruct™ FOR AUTODESK™ NAVISWORKS™