

Building Intelligence



iConstruct™
FOR AUTODESK™ NAVISWORKS™

Building Intelligence through iConstruct BIM Solutions

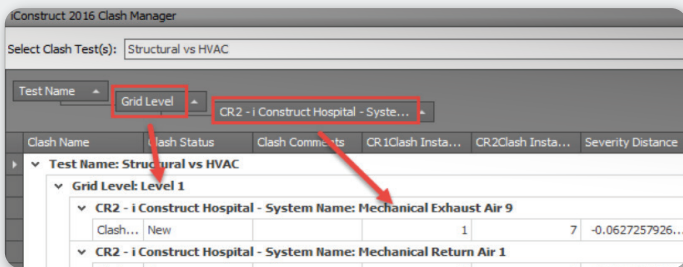
iConstruct's powerful and advanced Building Information Modeling (BIM) Technology is constantly evolving to deliver safety, environmental, cost and scheduling benefits. Utilizing the collaboration and review technology of Autodesk Navisworks, iConstruct allows users to configure and manage a range of information from various models (plus additional data) into a manageable, multi-user format.

Smart and Efficient Clash Management

Improve the efficiency of a project's clash results with this easy-to-use tool, which works well with Navisworks Clash Detective to quickly isolate clashes in particular sections of a model by clash status and/or level. Clashes can also be sorted by clash count, so objects with the highest clash counts can be investigated first.

Clash Manager allows:

You to apply sorting rules and cleanup clash results data into more manageable tasks - all based on sorting properties.



Clash Manager - Navisworks sorting properties

Managing duplicate clashes and/or clashes that should be grouped as one clash is made easy by using options such as "Skip duplicate clashes" and/or "Proximity Group Field Tolerance". These unique features allow you to group clashes that are within a certain distance to each other.

Customized Reports

By using advanced report designer functionality, you can create your own Custom Clash View Reports to suit virtually any project stakeholder requirement, everything from executive dashboard reports to detailed lists with clashing elements properties and visual location markers.



Model Coordination

There are various tools in iConstruct which enhance the creation of a federated model.

Integrator

The Integrator allows users to create their own custom data tab within Navisworks.

ReConstruct

A powerful tool that allows you to reorganize and group a model's hierarchy optimizing the model's selection tree for different stages. You can also export a cropped model based on section planes making the files more portable.

Append Data

The Append Data command is used to add, modify, or delete custom data to a selection within the model.

Zone Tools

Zone tools propagate data from zone geometry within your models on to objects that are either contained or partially contained within.

Export Data

Export Data feature allows users to export customized reports from data within your Navisworks models in various formats including excel, access and pdf (combining data, charts, images and tables).

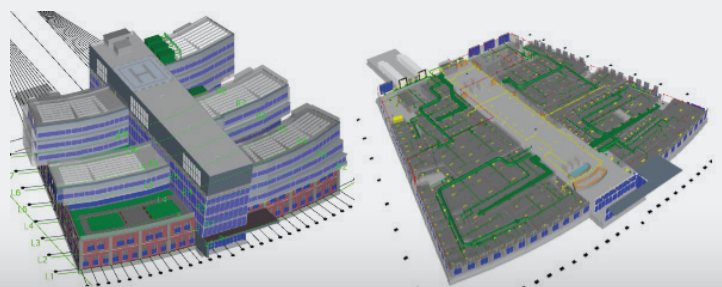
DataLinker

DataLinker is a powerful tool that provides the ability to bring in related information from external data sources and be displayed within the Navisworks model.

Audits

Audit is a very powerful tool to quickly create viewpoints and selection sets based on model properties and/or predetermined search criteria.

Example of reconstructed model



“iConstruct saves 2 man days per week, allowing BIM Managers more time for what they are meant to be here for—resolving issues before they get to site.”

James Gordon, BIM Manager,
Nuclear M+W UK

“We are at about 3.5 sec per report. This roughly equates to 1 man week of work in 8.5 minutes.”

Jim Braton,
Dynalectric USA



“In the past, clash groupings would have taken hours to complete, but iConstruct speeds-up the process dramatically. For the money though, you can't beat iConstruct. I have seen it work, so any tool that saves us labor is beneficial and worth the investment.”

David Francis, MEP Manager,
Murray Company

“Now there is life with Navisworks with iConstruct and I don't want to go back to where we were before”

I have been in the industry for 25 years and the level of customer service we have received from iConstruct has been great. They have gone above and beyond what I signed up for and I really appreciate it.”

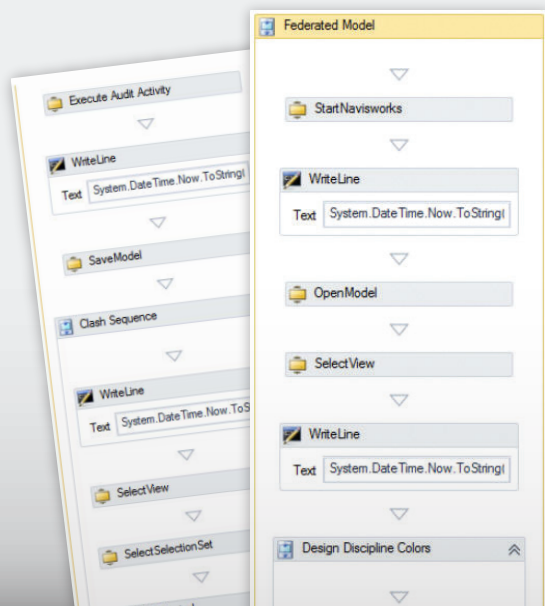
Steve Cutter, BIM Manager
Riddleberger Brothers, Inc

Automate recurring tasks using iConstruct

BIMFlow is a very powerful feature in iConstruct which automates the workflow for the creation of a federated model.

BIMFlow

Using BIMFlow, users can design their own workflows and put their ideas into practice. The workflow created by BIMFlow includes many of iConstruct's modules as well as Navisworks own features. Once the workflow is designed and run, it follows all the commands and features one by one and creates the model in unattended mode.



Status Visualization for project managers

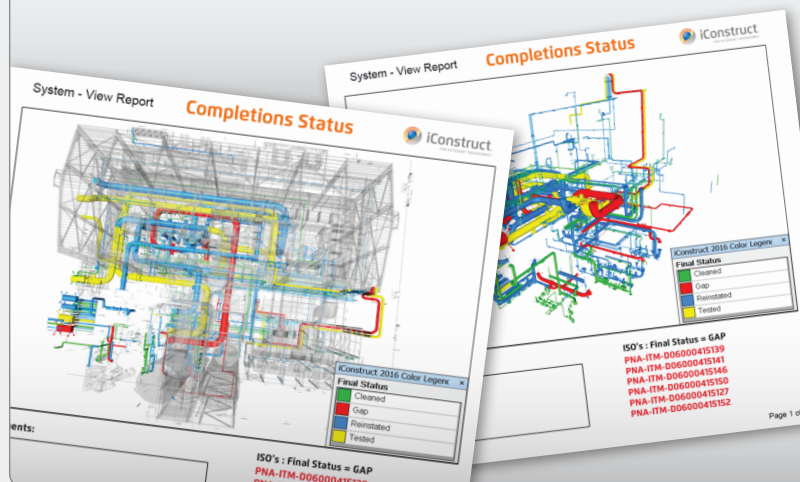
iConstruct has two ways to create compelling visuals from your 3D model and data set.

Audit

The Audit function allows you to create customized colored viewpoints of any component, spool, module or assembly. Used to create an overall Status Viz viewpoint, and automatically generate isolated viewpoints based on any model properties.

ColorCode

The ColorCode tool, will read a variety of external data sources and color your model on predefined rules, including SQL queries. When used with the View Report tool, you can quickly get pdf, excel, html and many other report formats.



“Our weekly coordination process would take 3 of us a full day, so over 30 hours. **BIMFlow** has meant it now takes one person 3 hours to complete.”

Isaac Heard, Construction BIM Manager
PDC BIM Evolved

“The time needed to process, review and manager [project] coordination has been dramatically reduced with iConstruct we are working smarter, not harder.”

Mark Decker,
Director of Virtual Design & Construction,
Jacobsen Construction, USA

“This product is great... it is as though you have captured the best of 100 BIM Managers into a single product.”

Luis Berumen, BIM Manager
Bartlett Cocke General Contractors,
San Antonio Texas USA

Advanced Exporting Interoperability

iConstruct provides a number of tools to export Navisworks BIM models to IFC4, IFC2x3, DWFx and DWG file formats.

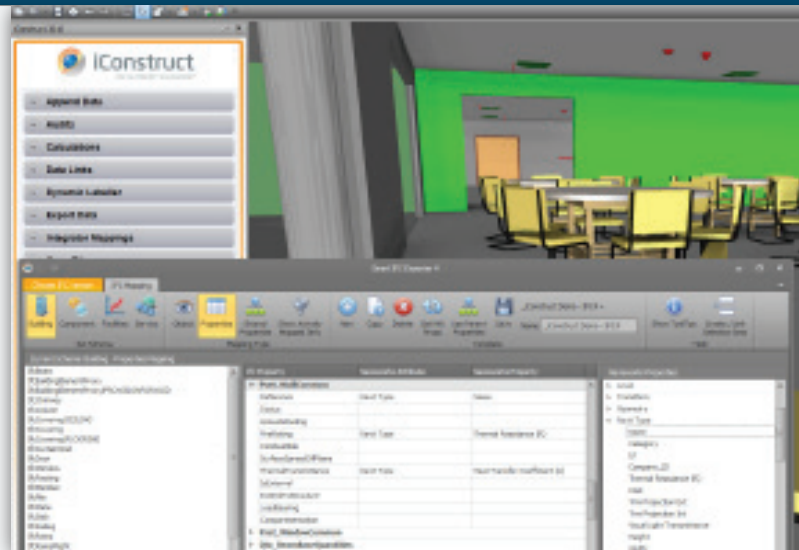
The conversion of BIM models to these file formats has never been easier, and iConstruct has continued to improve the exporters to work seamlessly over the years.

Smart IFC4 Exporter

Smart IFC4 Exporter allows the user to export model geometry, item properties and material colors to the widely supported Industry Foundation Classes (IFC) format. This enables the ability to import Navisworks BIM data into other construction software packages with ease.

Smart DWFx Exporter

Smart DWFx Exporter is a tool which leverages the inbuilt Navisworks DWFx export function to create DWFx files from the Navisworks BIM model. It was originally intended for use with CostX – first preparing the models into a consistent format then exporting using the Smart DWFx Exporter tool in order to bring into CostX for estimation.



Smart IFC4 Exporter

Smart DWG Exporter

Export mesh or solid intelligent DWG's directly from Navisworks with x-data, layer customization based on model data with retention of colors, groups and more. This allows you to import it with leading CAD software.

Major Global Customers Using iConstruct



To request a demonstration, please contact:

NORTH AMERICA

Toll Free Number: 833 201 9310

AUSTRALIA

Tel: (+61) 7 3085 7437

Sales: sales@iconstruct.com

Support: support@iconstruct.com

“iConstruct brings 50-75% in time savings, which would mean it paid for itself in two weeks, not to mention freeing me up to do some more meaningful work.”

John Finkell, Delivery Automation Professional, CH2M

“The largest opportunity is to develop customizable derivative services using Forge. iConstruct solves a big problem in the Forge infrastructure. For model creation tools other than Revit, iConstruct breaks up large models into something that can be consumed in the cloud.”

Robert Angus, Autodesk Solution Architect, Autodesk