



BIM- Compliant ERP from Friedman

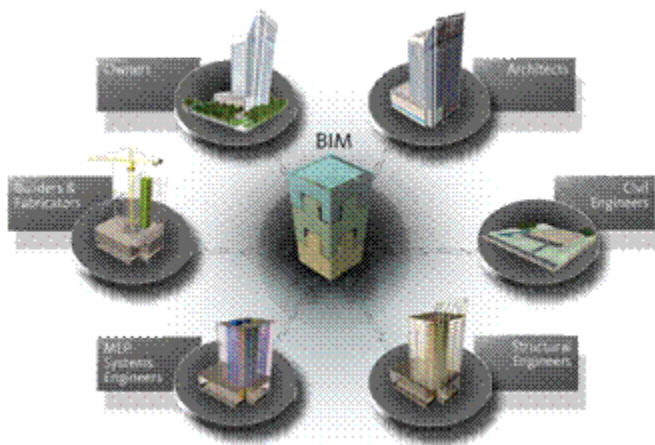
→ Sell into projects that require

building information modeling

- Get your products specified before bidding starts
- Leverage Frontier product configuration through all aspects of the building project lifecycle
- Grow your sales channel into the architecture and design communities

The business of designing, constructing, and operating buildings is undergoing a technological

transformation. Traditionally, information about a construction project has been shared using paper documents, including design drawings, construction diagrams, written specifications, takeoffs and submittal documents. The teams involved in the project communicate using these documents. Unfortunately, each of these “paper handoffs” is often associated with a loss of information. Furthermore, the production of paper at each stage of the project hinders the effective coordination between the



interested parties in the project.

Building information modeling (BIM) is a process of generating, managing, and using building data throughout the entire building project lifecycle. All participants in the project have access to the same database of project information which represents the “current truth” about the project. This database includes not only the basic building design as laid out by the architects and engineers; it also includes information about all

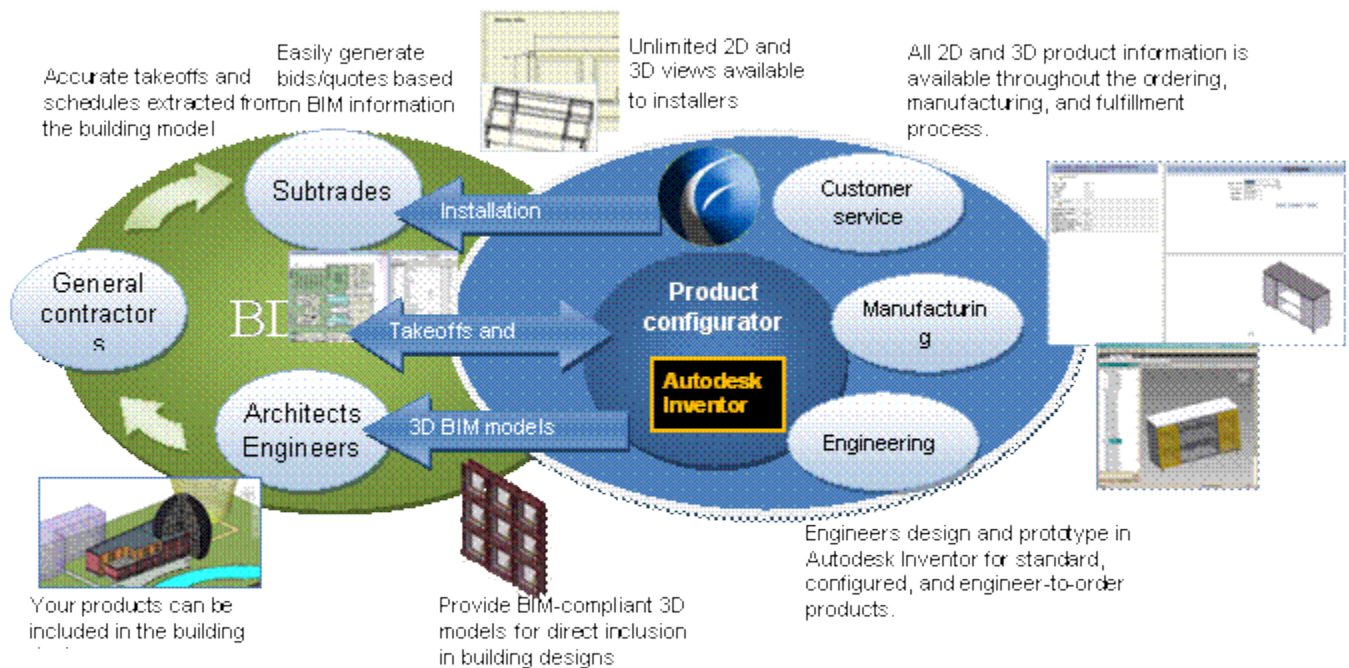
the **building products** incorporated into the finished building, including fenestration, doors, HVAC, electrical, casework, and systems furniture.

BIM provides tangible benefits to all participants in a building project: improved visualization, increased productivity, better coordination of construction documents, clash-detection, accurate schedules and take-offs, faster delivery times, and overall overhead costs reductions. **Owners, developers, architects, engineers, and constructors are realizing the benefits of BIM today.** As a result, **BIM is being used on an increasing number of building projects.**

Why BIM-compliant ERP is important in the building products industry

Manufacturers and suppliers of building products are under increasing pressure to be **BIM compliant**. Manufacturers need to provide **accurate 3-dimensional representations of their products** in BIM-compliant formats. These 3D models must also carry **essential metadata** to allow them to be placed into the overall building model, and to be subsequently retrieved from that model. **Projects that use BIM demand that suppliers be BIM-compliant.** Frontier ERP, BIMFlow and CADFlow enable you to fully participate in these projects.

Frontier: BIM-compliant solutions for the building products industry



Participate in BIM-enabled building projects, the integrated way. In complex make-to-order and engineer-to-order environments, the Frontier Product Configurator has always delivered rich functionality throughout the supply chain, from order entry across multiple channels to shop floor scheduling, manufacturing execution, and material procurement. Now, the Frontier ERP solution allows to manufacturers of building products to fully-participate in projects that use building information modeling.

Generate BIM-compliant 3D models directly from the Product Configurator. Frontier CADFlow allows your engineers and designers to develop products using the powerful capabilities of Autodesk Inventor®. Frontier CADFlow provides

tight integration between Inventor, the Product Configurator, and the entire Frontier ERP solution. In addition to providing rich product information through the entire Frontier system, the combination of CADFlow, BIMFlow, and Autodesk Inventor allow you to create models that architects and designers can include in their building designs. **Get your products included in the design before the bid.** When your products are included in a building design, you increase your chances of being the **sole source provider** of those products.

Easily extract accurate takeoffs and schedules from building models, and rapidly generate quotations. Use **Frontier eQuote** to rapidly process takeoffs and schedules extracted from the building models, and produce accurate bids and quotations which incorporate the site-specific data that comes with the building model.

Define and produce specialized 2D and 3D drawings for use by sub trades, installers, and field personnel. Autodesk Inventor allows you to associate an unlimited number of specialized views that are associated with your product. These specialized views can be transmitted with the sales order confirmation, or generated on demand at any time from within Frontier.

Visibility throughout your organization. Engineering, procurement, planning, customer service, manufacturing, and shipping all enjoy access to rich 3D product visualization, augmented with site-specific information from the building model.

A modular solution Frontier BIM-compliant ERP allows you to choose what you need to participate in BIM projects:

- **CADFlow** Exploit the power of *Autodesk Inventor* to extend the Frontier Product Configurator to digital prototyping, 3D modeling, and parametric engineering design;
- **BIMFlow Generator** Automate the production of BIM-compliant 3D models, and manage metadata;
- **BIMFlow Publisher** Automate the publishing of your BIM-ready models to *Autodesk Seek*, the premier online resource for users of Autodesk architecture products;
- **BIMFlow Schedule Import** Rapidly import schedule and takeoff data from building information models and generate quotations

Frontier provides an integrated, scalable, end-to-end solution for manufacturers in the building products industry

- **Leverage engineering and product knowledge throughout the entire project lifecycle**
- **Access more sales opportunities through BIM-compliance**

For more information about Frontier integrated BIM solutions, contact:

- **Jim Lott, (206) 330-6702**

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