

STRUCTURAL COMMUNICATION PLATFORM FOR HOME BUILDERS, RETAILERS AND REAL ESTATE

SERVICES PROFILE



Make the Options process convenient and efficient by providing home buyers with a self-service portal. By using GrapeCity's combined construction process knowledge, patented technology, and Microsoft products, builders can achieve higher profits and offer customers an improved and satisfying home building experience.



Challenge:

The home building and real estate industry while enjoying a high growth situation overall is going through technology adoption challenges as it struggles to adopt new technologies while still dealing with years of inertia as a low-tech industry. There are specialized solutions focusing on specific business problems and niche users and while that suits the respective vendors, no concerted effort has been made to break old moulds and release the potential of mass 3D building models in a technology-agnostic way and use them to drive a business supply chain comprising builders, vendors and consumers. Users across the board have to deal with data silos, redundancy of paper and electronic files and incompatible systems that encourage data and effort duplication.

Solution: 3D XML Structural Profiling (US patent)

NewerHome Technology, partnering with GrapeCity has developed a U.S. patented process that exposes all intricate details of a building to consumers over a computer network for searching, communicating, modifying, visualizing, and costing. The CAD-independent engine can draw upon existing CAD files (CAD-neutral detailing), site measured data (for as-built structures), or via a user-friendly online tool for quickly drawing or tracing any part of your home or renovation plan (DIY).

- CAD integration
- XML data exchange
- Construction-intelligent

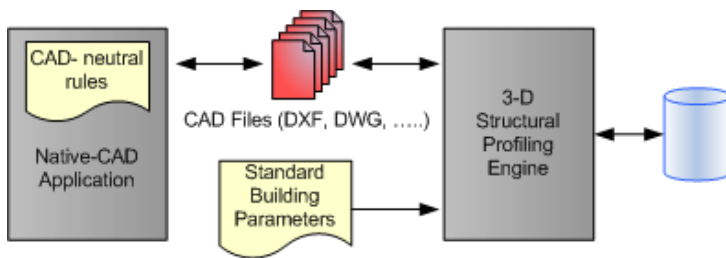


Diagram #1: Patented technology enables conversion of CAD plan to structural profile and back using XML

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A Structural Profile is a component by component break down of any structural or non-structural elements within a 2D CAD plan that can be measured, quantified, examined and inferred. Structural Profiling as a Web service facilitates a perpetual dialogue with all the component parts which make up a structure, from foundation to roof, and everything in-between, as illustrated below.

Screenshots:

The screenshot displays a software interface for structural communication. It features a 2D CAD plan of a building with various dimensions and annotations. A tree view on the left lists construction types such as Temporary Work, Excavation and Foundation, Carpentry, and Roofing. A detailed XML data view on the right shows the structure of a wall and panel, including attributes like stud spacing, sheathing expansion space, center line coordinates, and anchor bolt specifications. A context menu is visible over the CAD plan, offering options like Zoom In, Zoom Out, Original View, Show Splitter, Merge, Split, Select Wall, Select Wall Face, Show dimensions, and About SVG Viewer...

Benefits:

- Full integration with CAD preserves existing investment and yet leverages the benefits of open XML standards.
- The XML format ensures easy integration with third-party applications and offers flexibility of rendering (2D/3D/static/interactive).
- Applications are inherently construction-intelligent and driven by a centralized building database that encourages modifications, communications and e-commerce.

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- The building model becomes the foundation for anonymous, personalized catalog services that are cross-vendor, searchable, shareable and consumer driven.
- By combining the structural profiling service with the cataloging service, consumers and vendors can collaborate to create new, symbiotic models.

About GrapeCity USA

GrapeCity USA specializes in successful completion of strategic software projects. We leverage decades of experience to provide successful software development and testing services, as well as high-end technical support and implementation of Microsoft business solutions. With our strong technical capabilities, global resource base, expert project management, and proven agile delivery processes, GrapeCity focuses on the mobile, legal, construction, pharmaceutical, biotech, and financial industries. We take software development projects from concept to rollout with an unyielding commitment to quality and success.

About GrapeCity inc.

GrapeCity is a software development firm with headquarters in Japan and more than 700 employees across Asia and the United States. For more than 25 years, we have brought the benefits of latest technologies to enterprises around the world by providing optimized software services and business solutions, including in CRM and ERP.

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Contact us to learn more about how GrapeCity can help you offer an Options process to your customers.

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