

Press Kit tangible® architect™

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One-Page Summary

The Case for Model-driven Development

In today's highly competitive software markets, construction costs and time-to-market are critical success factors. One of the most promising approaches to reach these goals is generating high quality code from models.

How tangible architect works

With tangible architect, the software developer defines business objects using an UML Model, Class Wizards or C# Interface Code. tangible architect then generates the business objects including the data access code from within Visual Studio.NET. Thereafter, the user can extend the business objects and bind them to the presentation layer. In doing so, hand-crafted code size is reduced by up to 70% - reducing effort as well as the number of coding errors.

The benefits

Implementation and testing efforts can be reduced by as much as 50%. In addition, due to an improved overall code quality of the application, error rates and maintainability are significantly enhanced.

Product highlights

tangible architect seamlessly integrates with Visual Studio.NET and offers an impressive set of features. With the 2.0 version, released in June 2005, tangible architect offers UML support, Business Object Generation, Database Schema Generation, Data Binding and an included Object Oriented Database Browser. The product is available in three different editions, with prices starting from US\$ 250. A free, fully functional 30-Days Evaluation Version is available at www.tangible.de.

About tangible engineering GmbH

Headquartered near Stuttgart, Germany, tangible engineering GmbH is a pioneer in model-driven development. Working with industry clients such as DaimlerChrysler or Bosch and research institutions like Fraunhofer Gesellschaft, tangible engineering employees have over 10 years of experience in the most innovative software projects. tangible engineering is privately funded and is led by founder and CEO Tim F. Fischer.

Company Profile

tangible engineering's history and future

tangible engineering was using model-driven development for complex database development projects with clients like Fraunhofer Gesellschaft and Bosch. When .NET was made available by Microsoft, the company was looking for a commercial tool which could automate the generation of a Persistent Object Model and implement the lessons learned during previous model-driven projects, especially in regards to team-development requirements.

There was no tool available on the market that satisfied all needs. So the company decided to completely rewrite the existing model-driven code generator for the .NET Platform, integrate it tightly with Visual Studio.NET and make it available to the .NET community.

tangible engineering now has its main focus on the continued development and distribution of tangible architect, but also offers consulting services. By providing pragmatic tools and industry-proven patterns and services to support a team-oriented, model-driven development process, the company enables its clients to gain the full benefits of the model-driven development approach.

tangible's view of model-driven development

tangible engineering expects a model-driven approach and tool to generate a sound, high-quality framework and business objects that can easily be extended and bound to the presentation layer. The company does not work towards an unrealistic 100% application generation. It believes that the real potential lies in integrating humans and generators to work together in an optimal and efficient way.

Microsoft Certified Partner

As a Microsoft Certified Partner, tangible engineering has proven experience, knowledge and commitment with regard to the Microsoft Platform and technologies. In particular the company shares a common vision with Microsoft regarding the implementation of presentation layers through data-binding – as demonstrated in the next major platform release: WinFx and Avalon.

Management Team



Tim F. Fischer, Founder and CEO

Tim drives the direction of tangible engineering and is responsible for product management as well as the overall management of the company. With 12 years of entrepreneurial experience and 10 years of experience in model-driven software development, Tim is familiar with the business world as well as the technical world. As a technology consultant, Tim has worked for clients like DaimlerChrysler, BOSCH and Fraunhofer Gesellschaft. He holds a computer sciences degree from the University of Stuttgart.



Bjoern Borgsdorf, CTO

As tangible engineering's Chief Technology Officer, Bjoern has a key role in the development of tangible architect. With extensive experience in model-driven software development and a computer sciences degree from the University of Stuttgart, Bjoern is regionally recognized as an outstanding software developer and consultant.



Christoph Janz, Interim CMO

Christoph joined tangible engineering in April 2005 as a private investor. In his role as Interim Chief Marketing Officer, he helps tangible's team to make tangible architect available to a broad audience of .NET developers. Before joining tangible engineering, Christoph gained IT, marketing and entrepreneurial experience in various software projects and Internet start-ups.

Unique Highlights of tangible architect

tangible architect generates full business objects

In contrast to typical UML CASE tools, tangible architect is not limited to generating stubs from UML models. Instead, tangible architect generates a full business object implementation – including data access code - from C# interface definitions or UML.

tangible architect is focused - code templates are optimized and quality assured

tangible architect is not a code-generator that comes with a huge set of predefined templates for every technology and language. And there is good reason for this: tangible architect has a well designed set of features to support the implementation of a specific architecture on one platform. This allows the templates to be highly optimized and quality assured with regard to that platform.

tangible architect supports the whole development team

tangible architect supports each team member role: Architect, Business Logic Developer, User Interface Developer and Tester. The tangible architect feature set was carefully designed with regard to their different tasks and working styles to make sure it fits everyone's needs.

tangible architect has a unique feature set

tangible architect supports UML. Generated business objects realize the data access with intelligent caching and even implement data-binding interfaces for rapid User Interface development. The database schema is completely derived from the business object model and automatically deployed to the database. tangible architect is integrated into VS.NET and comes with an OO-Database Browser. This set of highlights is probably unique in the market.

Key Features

- **Seamless integration with Visual Studio.NET**
- **UML™ support** with support for forward, reverse and round-trip engineering.
- **Working Persistent Object Models** are generated from UML or C# Interfaces.
- **Schema Generation and Database Deployment** - the persistent object model automatically derives its database schema from the type-definitions.
- Thanks to **Data Binding**, data can be displayed and edited easily.
- The **Class View Wizards** which make it easy to add business logic to the object model.
- With the **Object Oriented Database Browser**, the developer can easily navigate the whole database in an explorer-like GUI
- **O/R Mapping** tangible architect takes care of the translation of tables into objects, eliminating the need for error-prone SQL programming.
- Compliance with **industry best practices** such as separation of Business Logic from the User Interface and Data Access code.
- **Reliable transactions** based on a connection-oriented architecture with pessimistic locking guarantee a seamless multi-user operation.
- Support for **Client/Server and Web-enabled Architectures** with up to 200 concurrent users.