Cincom® ObjectStudio® Environment

OBJECTSTUDIO

ObjectStudio is an object-oriented application development/deployment platform for creating and maintaining business applications. For developers of scalable internet, intranet and client/server applications, ObjectStudio programming tools provide increased productivity to help you meet the rapid time-to-market requirements of today's market.

For customers needing to build applications that cleanly fold into a Microsoft-centric infrastructure, ObjectStudio is an excellent choice. It's known as the "business person's thinking tool." Based on the powerful Smalltalk language, ObjectStudio provides a robust development environment, which is necessary to create innovative applications that capture complex business models and processes.

— WHAT'S NEW! —

Next Generation UI
- Latest features of Windows® native widgets
- No primitives
- All Smalltalk using FFI (DLLCC) -> Win32 api
- Support for jpg, png, gif and tif
- Access to GDI+ features
  - Gradient brushes
  - Alpha blending

Advanced Source Code Editor

Including:
- Full theming system (code highlighting and much more)
  - 27 themes provided
  - User customizable
- Auto-complete
- Code critic feedback
- DSL support
- Annotated feedback
- Fully leverages Text2

Powerful Object Modeling

The ObjectStudio modeling tool integrates the design of complex business objects generation, presenting a high-level, business-like interface that delivers user-friendly tools for working with objects. The object modeling tool supports case analysis, event diagramming, CRC cards and notations, including industry-standard UML.

Automated Code Generation

Using ObjectStudio, an application moves from the design stage to completion much faster than with traditional tools. The ObjectStudio modeling tool can modify and maintain applications more quickly and easily because class hierarchies and object relationships can be arranged graphically, without coding. Simply make changes to the model and then let the modeling tool generate the code automatically.

ObjectStudio Environment

The ObjectStudio development suite is the premier, pure Windows Smalltalk development toolset. Providing complete access to all standard Windows services (COM and ODBC), ObjectStudio allows developers of native Windows applications to provide a complete solution.

Hardware and Software Environments:

Microsoft® Windows 7/8/8.1 and Windows server 2008+.

Supported standards:
- ActiveX and OCX
- TCP/IP
- APPC
- OLE/OLE2
- DLL
- COM/DCOMEHLLAPI
- DDE

Supported databases:
- ODBC
- Sybase
- Oracle
- DB2/2

Highlights
- New! Next generation UI
- New! Revamped code editor
- New! Editor theme system
- Powerful object modeling
- Automated code generation
- Round-trip engineering
- Robust object mapping
- Strong database and legacy applications integration

New
- MatriX multi-core support
- SiouX Web server
- AppeX Web development
- Spy debug tool

Round-Trip Engineering

Even after an application is rolled out, your job is not done. Ever-changing requirements mean ever-changing code. With ObjectStudio, any changes to the business object model are automatically reflected in the code and vice versa. This means that you always have access to a current business model of the application. Using a current visual and easy-to-understand model, your business analysts, training and support team and IT staff can better understand your complex enterprise applications and be productive in less time.

Robust Object Mapping

The ObjectStudio mapping tool provides visual, drag-and-drop tools for linking objects to databases. The Object Relational Mapper uses the resulting object mapping definitions to make application connections to your database, without requiring any SQL code to be written into the application. This allows the developer to concentrate on objects without worrying about the details of the database implementation. This is done automatically.

Strong Database and Legacy Applications Integration

ObjectStudio supports the native API of the major industry-standard databases. This means that you can use the latest features of your database. With faster performance throughput and less coding, your development team does not have to be familiar with the complicated database API. ObjectStudio automatically integrates into the database for you. This means less training and better application performance over generic gateways like ODBC.

In addition, ObjectStudio supports both legacy communications standards and more modern standards, such as WS* (Web services). ObjectStudio developers can take advantage of this to build new applications that can communicate with nearly any existing software infrastructure you may have in place—from mainframe to desktop client.

ObjectStudio provides graphical round-trip object modeling, graphical object persistency tools and tight platform integration with Windows. All of this and legacy connectivity within a single development environment enable your enterprise to respond faster to market opportunities. ObjectStudio simplifies the development process by leveraging the power of component-based technology, enabling developers to:

- Model business objects
- Map business objects to data stores
- Manage objects with a team approach
- Develop with a powerful Windows integrated development environment
- Integrate with the powerful Cincom® VisualWorks® cross-platform suite, enabling WS* and server connectivity
- Integrate databases and legacy applications

Leveraging VisualWorks Components

With ObjectStudio now based on the Cincom Smalltalk foundation, this powerful combination allows users to leverage a range of VisualWorks capabilities.

Web Services

Web Services enable applications to communicate across networks or the internet in a platform-independent way. VisualWorks Web Services include full support for XML, SOAP, WSDL and UDDI and provide interoperability with .NET-based services and J2EE Web services.

MatriX Multi-Core

ObjectStudio lets you leverage multi-core processors with the MatriX framework. Using this can dramatically increase throughput for some applications.

Store Source Code Management

ObjectStudio offers source code flexibility with many ways to manage your code and organize projects and systems. Source files, parcels and the sophisticated Store RDBMS-based system can handle any size project.

Web Applications

Users have access to the new SiouX Web server with goals of performance and scalability, and the AppeX Web framework to build and maintain state-of-the-art Web applications for browsers and mobile devices.

Opentalk

Opentalk is the distribution framework that allows rapid implementation of distributed protocols such as Smalltalk-to-Smalltalk. Opentalk serves as the basis of VisualWorks Web Services and Web Toolkit implementations.

Security

The VisualWorks Security Library offers ObjectStudio users a wide range of cryptography and related security components implemented within the environment. This enables developers to quickly and easily incorporate a variety of security capabilities into their applications.

Components include secret key encryption, public key encryption, hash algorithms, digital signatures, password-based cryptography and support for SSL protocol and HTTPS.

Grab it. Try it. Fall in love with it.

You simply can't go wrong by choosing Cincom Smalltalk. To try it for yourself, simply visit **try.cincomsmalltalk.com**.