

DATA SHEET

Cincom Smalltalk

Cincom Smalltalk is a pure, object-oriented application development suite for software developers who need to build applications quickly and efficiently.

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.

Highlights

- Powerful object modeling
- Automated code generation
- Round-trip engineering
- Robust object mapping
- Strong database and legacy applications integration
- Now available running on the industry-leading Cincom Smalltalk engine
- Seaside, a leading-edge web framework, integration
- Microsoft Windows Vista certified

Cincom Smalltalk™ ObjectStudio® Environment

**Cincom Smalltalk**

The Cincom Smalltalk product suite consists of two environments: ObjectStudio and VisualWorks®. Cincom's Smalltalk 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, Cincom's Smalltalk programming tools provide the increased productivity and rapid time-to-market requirements of today's market.

ObjectStudio

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

Round-Trip Engineering

Once an application is rolled out, it is difficult for new users to understand the complex functionality. With ObjectStudio, any changes to the model are automatically reflected in the code. 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 an object database, without requiring any SQL code 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 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 is open to many communication standards, and its multiple access and interface capabilities make integration easier between new application-developed legacy applications and desktop environments.

ObjectStudio is a complete, object-oriented rapid application development suite of tools for designing and assembling customized applications. ObjectStudio promotes a highly productive, interactive development style backed with a powerful architecture and comprehensive toolsets.

ObjectStudio provides graphical round-trip object modeling, graphical object persistency tools and tight platform integration with Windows. Legacy connectivity within a single development environment enables 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 VisualWorks® cross-platform suite, enabling WS* (web services) and server connectivity
- Integrate databases and legacy applications

Powerful Object Modeling

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

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.

The Added Value of ObjectStudio 8

ObjectStudio 8 is the next generation of ObjectStudio, based on Cincom's VisualWorks development environment. This powerful combination of application development technologies allows users to leverage the range of valuable VisualWorks capabilities while still enjoying state-of-the-art ObjectStudio features. Despite the addition of new capabilities, ObjectStudio 8 maintains the same look and feel as the original ObjectStudio and all of the highly prized features, such as Windows integration and connectivity with databases and legacy applications. Source code developed in ObjectStudio can be used in ObjectStudio 8 with a few minor modifications, and users with existing ObjectStudio applications can make modifications in ObjectStudio 8 using all of the VisualWorks functionality. Conversely, VisualWorks users now have access to ObjectStudio advantages such as connectivity, Windows native GUI and object relationships that can be arranged graphically, without coding. Simply make changes to the model and then let the modeling tool generate the code automatically.

Leveraging VisualWorks Components

ObjectStudio 8 is the integration of two leading development platforms, enabling ObjectStudio to run on the VisualWorks virtual machine. This breakthrough in application-development technology allows programmers to leverage a variety of VisualWorks capabilities to streamline and expedite application development, as well as fortify application quality.

Seaside

The Seaside Web Framework is a leading-edge web framework for developing rich internet applications, using standards and technology such as W3, AJAX, Comet and CSS. Many traditionally difficult problems in web programming, like flow control, state management and handling the back button, are simple and easy in Seaside.

Web Services

ObjectStudio 8 allows developers to use VisualWorks Web Services frameworks in application development. 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.

Web Toolkit

ObjectStudio 8 users can build websites using the VisualWorks Web Toolkit, which incorporates the latest in web development tools.

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. All features of Opentalk, such as Opentalk-SOAP, are available in ObjectStudio 8.

Security

The VisualWorks Security Library offers ObjectStudio 8 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.

Hardware and Software Environments:

Microsoft Windows 2000 through Vista

Supported Standards:

- ActiveX and OCX
- APPC
- DLL
- TCP/IP
- OLE/OLE2
- COM/DCOM

Supported Databases:

- ODBC
- Sybase SQL Server
- DB2/2
- UniSQL Server
- Adabas
- Microsoft SQL Server
- Oracle
- Informix
- SUPRA® SQL Server

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FORM CSUS0903048 11/09
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