

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.

VisualWorks Environment

The VisualWorks suite is the premier Smalltalk platform for building instantly portable server, web-based and client/server applications. VisualWorks is portable across a wide range of platforms:

- Windows (2000/XP/200x/Vista/CE ARM and x86)
- Mac OS X PowerPC and Intel
- Linux (x86/SPARC/PPC)
- HP/UX
- AIX
- Solaris (SPARC/x86)

VisualWorks® has full 64-bit support on Linux (x86-64) and Solaris (SPARC/x86-64).

Highlights

- Seaside Web Framework
- Internationalization
- Web Services
- Web Toolkit
- COM Active/X
- Security
- Distributed Protocols
- Opentalk

VisualWorks® Environment

Cincom Smalltalk™

The Cincom Smalltalk product suite consists of two environments: VisualWorks and ObjectStudio®. VisualWorks is an enterprise-class application development and delivery platform used by world-class companies in areas such as semiconductor manufacture, shipping, financial risk management, insurance, banking, government, education and healthcare.

VisualWorks

VisualWorks includes components for any type of work your team might contemplate: Web Applications, WS* (Web Services), SNMP Connectivity and superior development tools. VisualWorks now includes best-of-breed tools like the Refactoring Browser and the Professional Debugger Package, fully integrated with the product. VisualWorks is ready for integration with other leading applications and services, with support for Web Services, CORBA, COM and common internet protocols.

VisualWorks has support for all major internet protocols including SOAP, WSDL and UDDI. Additionally, VisualWorks supports interoperability standards such as SNMP and MQS, allowing Smalltalk applications to seamlessly plug into an enterprise infrastructure—an important feature for IS shops that need to integrate multiple applications from multiple sources.

This generation of Smalltalk also stands as the best way to interoperate with the existing and competing standards of .NET and J2EE. With CORBA support for J2EE, Web Services support for .NET and COM support for legacy applications, VisualWorks is uniquely suited as an integration platform.

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 with Seaside.

Web Toolkit

The Web Toolkit is another proven framework, for more traditional web development, built with current industry tools. This takes advantage of and leverages the expertise of web developers and designers who do not know Smalltalk.

Web Services

Web Services offers a clean way to interoperate transparently with remote services, or to transparently make Smalltalk services available to others.

VisualWorks has full support for UDDI, SOAP and WSDL. This allows for full interoperability with .NET-based services and J2EE web services. Wizards make it easy to either expose existing interfaces as a web service, or to create client Smalltalk interfaces to existing services.

Product Enhancements

Refactoring Browser

We have been working to integrate the menus and keyboard bindings across all of our development tools—the browser, the debugger and the inspector. That work is well in hand and continuing. Additionally, the browser and debugger have seen major facelifts in the last two releases, and will be getting a visual refresh in the upcoming product release.

Database

VisualWorks supports connectivity via ODBC and native connections to Oracle, Sybase, SQL Server, PostgreSQL, MySQL and DB/2. There are a number of contributed database connects to other RDBMS systems. Of course, VisualWorks connects closely to OODBMS systems like GemStone and Objectivity, which allow for much more natural object persistence.

GUI Tools

The UI painting tools show continued improvement. Hotkey support has been added for all UI components, definable from the painting tools. The event system has been updated, and support for the wheel mouse has been added. There is now base-level support for XBM, JPG, PNG and GIF image formats and new support for window opening and positioning. Work has started on support for alpha blending of graphics, and support for the Cairo graphics package is coming soon. The user interface now operates with multiple processes instead of a single "distinguished" process. This enables more responsive applications. The Tree and dataset widgets have been enhanced as well, with additional keyboard navigation features.

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Network Connectivity

VisualWorks now has an extensive library of internet connectivity tools. We support a variety of protocols including FTP, HTTP, SMTP, IMAP and POP3. Most of these protocols are supported by a robust MIME framework.

Other communications protocols such as IBM's MQSeries communications framework are fully supported.

Security - SSL

An extensive Security library includes implementation of a number of cryptographic algorithms (MD5, SHA, DES, AES, RSA, DSA, DH, etc.) as well as higher-level mechanisms like password-based cryptography (PKCS#5), standard secure private key storage (PKCS#8) or public key certificates (X.509). Many of these standards are supported by a flexible ASN.1 marshaling framework. A complete implementation of SSL protocol is used to secure other protocols like HTTP (HTTPS) or various mail protocols.

The Added Value of ObjectStudio 8

ObjectStudio 8 is the next generation of ObjectStudio, based on 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, native Windows 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.

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

Unparalleled productivity, the best tools for supporting emergent methodologies like XP and worldwide support from Cincom. You simply can't go wrong by choosing Cincom Smalltalk. To try it for yourself, simply visit www.cincomsmalltalk.com.