COREL

XMetaL®4

for Windows®

Product Guide
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Introducing Corel® XMetaL® 4

Corel® XMetaL® 4 revolutionizes the creation of reusable business content by increasing content quality, cutting production costs and expediting delivery. Business users can now collaborate on the creation, reuse and re-purposing of content for distribution to the Web, print and other media. Featuring tight integration with content management systems, the Corel XMetaL 4 platform is comprised of four tools expressly designed to simplify the development, deployment and implementation of customized XML applications.

New in Corel® XMetaL® 4

Corel XMetaL 4 includes the following new features designed to help your organization produce better, faster and cheaper content:

• **Corel® XMetaL® for ActiveX®** enables XML authoring in a browser or any Windows®-based application.

• **Corel® XMetaL® Developer** provides an IDE for XML authoring customizations and integrations.

• **Corel® XMetaL® Author** includes the spelling checker and thesaurus from the Corel Writing tools.

• **Corel® XMetaL® Central** provides a server-based XML environment manager that simplifies the deployment and maintenance of customized XML applications.

• **Improved Find and Replace dialog box** provides an interface more familiar to Microsoft® Word users, including a Search History feature that users can access from a convenient drop-down list.

• **Enhanced support for W3C® Schema** now includes multiple namespaces and DOM 2.0 APIs.

• **Improved WebDAV support** allows the editing of in-place documents over networks, including the Internet. WebDAV also features authentication capability, author metadata storage, customization storage, file locking ability, and namespace manipulation ability.

• **XMetaL® Application Customization (XAC) set support** allows the automatic configuration of Corel® XMetaL® Author customizations deployed using XAC. This is transparent to the content creator using XMetaL Author.
Business advantages of Corel® XMetaL® 4

Developing and deploying custom XML content creation applications with Corel XMetaL 4 will cut your development time and help keep your users productive and comfortable through the use of familiar tools and behaviors.

Corel XMetaL 4 gives your organization several choices for deploying your custom developed XML applications. For ease of integration and deployment, choose Corel XMetaL for ActiveX. To provide a stand-alone client application to meet specific needs and skill levels of your users, choose Corel XMetaL Author. Both authoring platforms can easily be customized and integrated with content management systems (CMS) using Corel XMetaL Developer, a complete IDE for XML authoring interfaces. You can also take advantage of Corel® XMetaL® Central, a complete XML environment management tool, to reap the rewards of lower service and maintenance costs.

Since you can deploy Corel XMetaL for ActiveX to any ActiveX-compliant Windows-based application or Web browser, you can provide business users and content experts with XML authoring tools within familiar workflow environments. This effectively reduces the author’s learning curve, which, in turn, lowers costs associated with training. You can also save time by using common scripting techniques to perform service work on custom developed applications.

The comprehensive Corel XMetaL 4 platform also improves the speed and quality at which content is produced. It offers the only richly customizable XML editor that supports both standards for customer-defined DTDs and W3C XML Schema. Boasting tight CMS integration and the ability to integrate with multiple content repositories, Corel XMetaL 4 lets your business automate content assembly and lowers costs associated with content reuse.

In addition, Corel XMetaL 4 is a validating XML content creation platform that incorporates rules checking functionality to help your business achieve higher quality content. Corel XMetaL 4 also includes unsurpassed support for WebDAV. This ensures that your business users can work in a collaborative environment with a managed document approval and editing process.

Ultimately, Corel XMetaL 4 gives your organization the ability to achieve higher quality content through content consistency, completeness, and managed approval and editing. Your organization will realize lower content production costs through content reuse, production automation, faster training, ease of deployment and ease of system evolution. Your business users will achieve greater productivity through automated content assembly, automated database connectivity, automated Web output generation, simplified print production, and new device or process outputs.
Customizing and integrating XML authoring for business users

Corel XMetaL 4 includes the new Corel XMetaL Developer, a plug-in for Microsoft Visual Studio .NET that provides developers with a familiar and integrated development environment for creating Corel XMetaL applications, customizations, and CMS integrations. This powerful development studio simplifies the creation and customization of XMetaL applications and document creation and editing interfaces that will be deployed for both Corel XMetaL Author and Corel XMetaL for ActiveX users.
Corel® XMetaL® Developer

The powerful Integrated Development Environment (IDE) of Corel XMetaL Developer gives developers many tools and strategies for developing custom XMetaL interfaces. Typically, creating interfaces for XMetaL involves four different levels of development.

**Customizing**: develop end user productivity enhancements using menu-based tools and without manual coding.

**Scripting**: create sophisticated behaviors and document manipulations using common scripting and Web development techniques.

**Integrating**: connect XMetaL with other CMSs and applications using COM and Java™.

**Managing**: deploy and maintain large implementations across your organization with Corel XMetaL Central.

Developing custom user interfaces (UI)

Corel XMetaL 4 gives developers a wide variety of strategies for creating XML document editing interfaces, ensuring that they are tailored to specific documents, as well as the skill level of content authors.

**Simple or expanded interface**: The dual authoring environments of Corel XMetaL Author and Corel XMetaL for ActiveX offer developers complete flexibility to provide interfaces for users of any and all skill levels. The Corel XMetaL 4 platform allows the removal of default menus and toolbars, which lets you easily add your own menus and toolbars without having to learn a new or proprietary programming language. In addition, you can specify different user experiences and access levels for different document types. For example, you can reduce the interface to allow only “Open”, “Save” and “Close” actions, or expand it with custom scripted buttons and menus to connect the interface to virtually any process.

**Visual Studio® .NET project templates**: To save time, Corel XMetaL Developer includes Visual Studio .NET templates that include XML and Corel XMetaL files you need to create new customizations. You can easily modify these templates to suit the specific needs of your business users.

**Quick customizations**: You can edit Corel XMetaL customization files (CTM) from the Visual Studio .NET environment for schema-specific customizations of any element. Since it’s an integrated development environment, you can also quickly update existing customizations or create new customizations for any user within the Corel XMetaL Developer interface.
**Customization dialog box:** The menu-based Customization dialog box in Corel XMetaL Developer provides an easy way to create new editing behaviors for any schema. You can invoke script and code upon element insertion, include change-to and followed-by behaviors, define common format types, such as graphics and lists, or create interactive form elements for easy editing of brief, tabular metadata.

**Multiple namespace support in W3C® XML Schema:** Corel XMetaL 4 includes W3C Schema (XSD) for rich content validation. Providing unmatched flexibility, XMetaL loads either a W3C XML Schema or a DTD, allowing your organization to develop with the schema language that best suits your needs.

**Superior table support:** Corel XMetaL Author provides table editing for CALS and HTML table models. The Table toolbar lets business users quickly add, delete, and modify CALS and HTML tables. XMetaL also supports CSS tabular display for other elements.

**Easy styling and transformation:** Corel XMetaL 4 offers developers familiar CSS styling for authoring views and XSL™ for document transformations. The use of CSS and the ability to accept customized dialog boxes make it easy to format documents for clear, easy editing. In addition, the power of XSL can be used to create multi-channel outputs such as HTML, PDF and wireless messages.

**Full Unicode support:** Corel XMetaL Author features transparent Unicode-conformant editing and display for all left-to-right reading languages. Native Unicode support lets business users work with multiple languages in a single document. Developers can also take advantage of Unicode characters in the UI when localizing Corel XMetaL Author interfaces for different languages.
Scripting with Corel® XMetaL® Developer

Corel XMetaL 4 features extensive scripting support and capabilities that allow the development of sophisticated behaviors using inexpensive, high level code and common Web development techniques.

**Resource Manager:** The Resource Manager within Corel XMetaL Author is a scriptable browser control and object manager. It provides drag-and-drop access to a library of objects that can include boilerplate text, images, document fragments, macros and applications. Because it’s extensible, developers can add unique UI to, for example, a content management system. By simply creating an ActiveX control to represent the application (or CMS) you want to integrate with, creating a new Tab on the Resource Manager, and placing the ActiveX control in the new Tab, you can tailor the Resource Manager to meet the needs of any document or user.

**Corel XMetaL Forms Toolkit:** Corel XMetaL 4 includes the XMetaL Forms Toolkit (XFT) to help developers create custom forms that either display as modal dialog boxes or are embedded within a document. This powerful form-creation tool features drag-and-drop functionality, a data source control for binding documents to database information and a wizard for easy form setup. The XFT simplifies and provides greater control of content creation. Since it’s tightly integrated with XMetaL, your organization won’t have to pay for additional form creation products.
Java™ API: The extensive Corel XMetaL API is now directly available to Java applications as a set of Java classes. If your organization has standardized on Java, you have complete access to Corel XMetaL without using a COM wrapper.

DOM support: DOM implementation in Corel XMetaL 4 is solid, standards-compliant, and well-documented. These factors allow developers to script complex XML document manipulations.

Microsoft® Word document transformation: Using customizable scripts, Corel XMetaL can automatically convert Word files into valid XML documents, saving your organization tremendous amounts of time and money.

COM development environment: Corel XMetaL Author and Corel XMetaL for Active X are full-fledged COM servers with extensive and well-documented APIs comprising more than 300 interfaces that give complete access to both the XML content and UI behaviors. And because they’re also COM clients, you can integrate with external applications and data stores using standard COM programming techniques.

Scripting support: Corel XMetaL Developer interfaces with the Windows Scripting Host to allow complete access to its API using standard scripting languages such as SCRIPT™ or VBScript.

Script debugging: Corel XMetaL Developer lets you edit script macros with the Visual Studio .NET script debugger for SCRIPT and VBScript, providing a centralized location for all script editing within your organization.
Integrating Corel® XMetaL® 4

Since Corel XMetaL Author is a full-fledged COM client and server, and XMetaL for ActiveX is an embeddable control, developers can integrate XMetaL using COM and Java interfaces and programming techniques. This allows you to seamlessly integrate XMetaL with external applications and data stores like content repositories, publishing systems or databases.

**Simplified deployment:** Since Corel XMetaL for ActiveX is an ActiveX control that developers can embed in any Web page or Windows-based application, deploying XML-authoring capability to business users virtually anywhere is a simple process. This ability stands to dramatically change information exchange as the Web becomes a two-way street. Imagine giving report authors or form submitters the ability to write descriptive documents complete with graphics through a browser or your own workflow interface.

**Easy integration:** Corel XMetaL for ActiveX supports existing XMetaL integrations to CMSs from Documentum and Interwoven for easy multi-user implementations, and is easy to integrate with Oracle, Software AG, or Microsoft® SQL. These modules ease your organization’s ability to create content collaboratively, reuse content, discover existing information within legacy content, and provide safe versioning control.

**Collaborative authoring:** For developers, support for WebDAV provides a network protocol for creating interoperable, collaborative applications. This allows business users to load, edit, delete, and create files safely in a multi-user environment. Corel XMetaL Author lets users open files directly from WebDAV folders. Corel XMetaL 4 allows numerous ways to integrate with content management systems of all kinds and free integration kits are available for Documentum and Interwoven.

**Corel® XMetaL® Central support:** Corel XMetaL 4 features tight integration with Corel XMetaL Central for easy deployment, integration, and maintenance.
End user authoring features

Corel XMetaL 4 features two fully customizable authoring platforms for the creation of different XML-authoring environments. You can choose the level of customization—from the sophistication of a word processor to the simplicity of an online application form—to satisfy the needs of any user. With Corel XMetaL 4, your organization will quickly realize the cost savings that XML brings to the process of creating, approving and delivering personalized content to print, the Web and other delivery channels.

Shared authoring features

Corel XMetaL Author and Corel XMetaL for ActiveX share much of the same authoring capabilities that make it easy for anyone to create XML content with confidence.

**Emulate word processor behaviors:** Using Corel XMetaL Developer, developers can create XML-editing interfaces with a “Tags Off” view for users who prefer working in a familiar word processing environment. Whether deployed as XMetaL Author or XMetaL for ActiveX interfaces, built-in responses will produce familiar keystroke behaviors while respecting the valid state of the document.

**Revision marking:** Corel XMetaL Author and XMetaL for ActiveX provide revision marking that improves the collaborative approval and review process in an enterprise environment. For convenience, the user can toggle revision marking on or off. In addition, highlighting, color coding and strike-out fonts indicate deletions, insertions and other changes made by multiple users. Each change can then be accepted or rejected before it is implemented.

**Windows® conventions:** Corel XMetaL Author and XMetaL for ActiveX use common Windows key and mouse behaviors, support drag-and-drop functionality, and can provide an interface familiar to anyone who has ever used Microsoft® Word or WordPerfect®.
Corel® XMetaL® Author

Corel XMetaL Author delivers easy-to-use XML authoring environments to any desktop. This XML document creation tool is built for maximum ease of use, allowing anyone to create valid XML content with confidence.

Anyone can create valid XML content

Corel XMetaL Author simplifies XML content creation by offering business users and content experts word processing interfaces, tools and behaviors. Working in a familiar environment, they can easily create valid XML documents without knowing the intricacies of XML or the underlying document structure.

**XML-specific authoring aids:** The authoring aids found in Corel XMetaL Author help business users create valid markup. For easy tag insertion, the context-sensitive Attribute Inspector and Element List show valid markup options at the current point in the document. Corel XMetaL Author also features real time rules checking, keyboard macros, a spell checker and thesaurus, as well as an advanced search and replace engine.

**New support for Tag aliasing:** Corel XMetaL Author lets developers translate element names or expand them within the same language. For example, French-speaking authors can use a DTD or XML Schema that was created using English element names.
**Structure View:** An editable Structure View makes it easy for business users to navigate and work with documents. Using Cascading Style Sheets (CSS™), the Structure View can be customized and toolbar buttons assigned to provide multiple tree-structure views of the same document.

**Macro support:** Macro support in Corel XMetaL 4 lets developers assign recorded and custom scripts to keyboard shortcuts, toolbar buttons, and menu items.

**Corel® Writing Tools**

Corel XMetaL Author includes the spelling checker and thesaurus from the Corel Writing tools used by Corel Ventura® and WordPerfect.

**Spelling checker:** Corel XMetaL Author includes a spelling checker that can check the spelling in an entire document, part of a document, or only selected text. Users can define automatic replacements for words that are regularly misspelled. Users can also skip a spelling error once and still flag subsequent occurrences, or users can skip the error for the rest of the proofreading session.

**Thesaurus:** Corel XMetaL Author includes a thesaurus that lets users look up synonyms, antonyms, and related words. The thesaurus can also be used to replace words in documents. In addition, the thesaurus maintains a history list of words that the user has looked up.

**Multi-language support:** Many language modules are available to use with the Corel XMetaL Author writing tools. In fact, business users can now include text that alternates between different languages in their documents. For example, with a French language
module installed, users can include a French word or paragraph in English text. They can also assign languages to text for use with the Corel XMetaL Author writing tools. This prevents foreign words from being marked as misspelled during a proofreading session.

Corel XMetaL Author includes language modules for the following languages:

- Afrikaans
- Catalan
- Czech
- Danish
- Dutch
- English - Australia
- English - Canada
- English - U.K.
- English - U.S.
- Finnish
- French - Canada
- French - National
- Galician
- German - National
- German - Swiss
- Greek
- Icelandic
- Italian
- Norwegian
- Polish
- Portuguese - Brazil
- Portuguese - Portugal
- Russian
- Slovak
- Spanish - American
- Spanish - National
- Sweden
- Tswana
- Turkish
- Xhosa
- Zulu
Corel® XMetaL® for ActiveX®

Corel XMetaL for ActiveX is a completely customizable XML authoring control that can be embedded into any ActiveX-compliant Windows-based application. This means XML authoring capability can be seamlessly incorporated into browsers or other Windows-based applications—enabling access to XML content creation virtually anywhere. For developers, XMetaL for ActiveX provides an editing window around which they can build UI elements, menus, and toolbars to connect to the XMetaL API.

XML authoring anywhere by anyone

What makes Corel XMetaL for ActiveX so compelling is its ability to deliver custom developed XML-authoring environments to business users virtually anywhere. There is no other XML application that can deliver comprehensive XML document-editing functionality to any browser or any Windows-based application. The business advantages of Corel XMetaL for ActiveX are many and include the virtual elimination of deployment management costs, the ability to develop customizations to transform any Windows-based application into an XML editor, and tight CMS integration.
Embed anywhere: Developers can embed the Corel XMetaL for ActiveX control for use in Web pages and custom Visual Basic®, Java or C++ applications. This ability lets you provide valid XML content creation capability for any situation. For example, you can add XML editing functionality to an Outlook® form.

Multiple instances: Multiple instances of Corel XMetaL for ActiveX can be run within the same executable or Web page, providing any number of XML editing interfaces within the same application or Web site.
What is Corel® XMetaL® Central?

Corel XMetaL Central is a server-based XML environment manager that simplifies the deployment and maintenance of customized XML applications across your organization. Since it is powered by Web services, XMetaL Central saves IT managers enormous amounts of time, and ensures that users are accessing the most up-to-date tools.

Complete XML environment management

Corel XMetaL Central is composed of three components that provide your organization with complete XML environment management, making it easier than ever to install, customize, and update content authoring applications. It helps developers manage a large number of customizations remotely from the Corel XMetaL Central Server, and it takes advantage of Simple Object Access Protocol (SOAP) technology so users can easily download packages using standard Web technology. This results in reduced maintenance costs and reduced impact on the end user.

Corel XMetaL Central gives developers and system administrators the ability to deploy, update, maintain or delete any file related to the XML environment, including DTDs, XML Schemas, customizations, macros, templates, style sheets and transformations. In addition, XMetaL Central manages the entire application development process, which reduces workload for development staff.

**Corel XMetaL Central Server**: an application for user management, package creation, maintenance, versioning, and XML application interface customization.

**Corel XMetaL Central Console**: a browser-based interface that developers use to remotely access the Corel XMetaL Central Server. It collects data on all users to determine access levels, such as permissions, administrator or developer privileges, and author rights for assets and packages. It also organizes files, including settings, macros, DTDs and schemas, into packages for distribution and includes features to recall, update, and delete packages without any user involvement.

**Corel XMetaL Central Agent**: a client-side application that manages the authentication parameter for each user and validates the XML packages against the XMetaL Central Server. If a newer version of a package is available, the XMetaL Central Server will automatically download and install the new package without user involvement.
Product components and requirements

The Corel XMetaL 4 platform is comprised of four tools expressly designed to simplify the development, deployment, implementation, and maintenance of customized XML applications.

Applications

**Corel® XMetaL® Author**—a customizable desktop XML authoring component

**Corel® XMetaL® for ActiveX®**—a customizable XML authoring control that can be embedded into any Web page or Windows-based application

**Corel® XMetaL® Developer**—a plug-in for Visual Studio .NET that lets developers create XMetaL customizations and authoring interfaces to be deployed to XMetaL Author and XMetaL for ActiveX users

**Corel® XMetaL® Central**—a server-based XML environment manager for XMetaL Author and XMetaL for ActiveX deployments

Minimum System Requirements

Corel XMetaL 4 has specific minimum system requirements for individual components.

**Corel® XMetaL® Author and Corel® XMetaL® for ActiveX®**

- Windows® 98 SE, Windows NT® 4.0 with SP6a or higher, Windows 2000, Windows Me, or Windows XP
- Pentium® 133 MHz processor
- 64 MB RAM, 128MB recommended
- 70 MB hard disk space
- 40 MB available disk space during installation
- 640 x 480 SVGA monitor
- Microsoft® Internet Explorer 5.0 or higher
- Windows Script Host and Windows Script 5.6 or higher
• Microsoft Data Access Components (MDAC)
• Microsoft (MSXML) XML Parser
• Older versions of the Corel XMetaL Forms Editor use the Forms 2.0 DLL

Corel® XMetaL® Developer
• Windows NT 4.0 with SP6a or higher, Windows 2000 or Windows XP Professional
• Microsoft® Visual Studio® .NET Standard Edition or higher

Corel® XMetaL® Central

Windows:
• Windows 2000 Professional or Server Edition, or Windows XP
• Pentium III
• 1 GHz with 512 MB RAM
• 5 GB available hard disk space*

Solaris™:
• Solaris™ 8 or higher
• Sun 32-bit Ultra Sparc workstation
• 500 MHz with 512 MB RAM
• 5 GB available hard disk space*

*Additional space may be required depending on the number and size of customizations.
Summary of benefits

Corel XMetaL 4 provides developers with the ultimate environment for creating intuitive XML-authoring interfaces that enable business users to author valid XML documents or forms. With Corel XMetaL 4, your business will quickly realize the higher quality, cost savings and greater delivery speed that XML brings to the process of creating, approving, and delivering personalized content to print, the Web, and other delivery channels.

Take advantage of solid standards support

Corel XMetaL 4 offers a full-featured validating XML editor that provides the authoring aids and advanced construct support necessary to let anyone create valid XML documents. XMetaL also supports the W3C XML Schema standard, promising interoperability for your information and longevity for your custom developed XML applications.

XML authoring by any user, anywhere

With Corel XMetaL 4, developers finally have the ability to quickly create customized interfaces that allow anyone to create XML. Corel XMetaL Developer provides a rich array of customization strategies and techniques to transform the look and behavior of your custom developed XMetaL interfaces based on the document being created and the expertise of your users. The addition of Corel XMetaL for ActiveX lets you provide XML editing capability virtually anywhere it is needed.

Leverage existing development skills

With Corel XMetaL Developer, you can quickly develop advanced editing behaviors using common scripts and development techniques. Your organization will realize reduced project costs and faster application production by giving developers the ability to easily control interface behaviors and build powerful document manipulations with XSL, DOM, CSS and COM technologies, as well as common scripting languages.

Integrate seamlessly with COM and Java™

Corel XMetaL 4 is designed for easy integration with content management systems and databases. An extensive document object and interface API is accessible through COM and Java. Rounding out the platform, Corel XMetaL Central simplifies the deployment, management and maintenance of XMetaL customizations across an enterprise.
Corel Corporate Profile

Founded in 1985, Corel Corporation (www.corel.com) is a leading technology company specializing in content creation tools, business process management and XML-enabled enterprise solutions. The company's goal is to give consumers and enterprise customers the ability to create, exchange and instantly interact with visual content that is always relevant, accurate and available. With its headquarters in Ottawa, Canada, Corel's common stock trades on the Nasdaq Stock Market under the symbol CORL and on the Toronto Stock Exchange under the symbol COR.
For more information about Corel XMetaL 4, please visit [www.corel.com/xmetal4](http://www.corel.com/xmetal4).