



ALTOVA®
raptorxml®
2013

Altova® RaptorXML® is the third-generation, hyper-fast XML and XBRL processor from the makers of XMLSpy®. Altova drew upon its fifteen-year tenure as leader in the XML tools field to architect RaptorXML from the ground up, optimizing it for the latest standards and parallel computing environments. Designed to be highly cross-platform capable, the engine takes advantage of today's ubiquitous multi-CPU computers to deliver lightning fast processing of XML and XBRL data. RaptorXML supports all relevant standards and has been submitted to rigorous regression and conformance testing to achieve greater than 98% conformance.

In today's organizations, XBRL mandates and Big Data trends are producing huge, ever increasing amounts of XML and XBRL data. Now, there is finally a modern, hyper-fast engine to validate, process, transform, and query all of it: RaptorXML.

- Ultra-high performance code optimizations
- 32- and 64- bit versions
- Ultra-low memory footprint
- Cross platform capabilities
- Highly scalable code for multi-CPU/ multi-core/parallel computing
- Parallel loading, processing, and validation
- Superior error reporting
- Streaming instance validation against DTD and XSD
- Streaming serialization
- Built-in HTTP server with REST validation API
- Powers award-winning Altova MissionKit® XML and XBRL developer tools

Supported Platforms

Hardware / CPUs

- x86 and amd64 (x86-64) instruction-set based cores: Intel Core i5, i7, XEON E5

Operating Systems

- Windows Server 2003, 2008 R2, Windows XP, 7, 8 or newer
- Linux (RedHat 6, CentOS 6, Debian 6, and Ubuntu 12.04 or newer)
- Mac OS X 10.7 or newer (64-bit only)

Developer Features

- Windows server mode and Unix daemon mode
- Python 3.x interpreter for scripting included
- COM API
- Java API
- XPath Extension functions for:
 - Java
 - .NET languages (C#, VB, JScript, etc.)
 - Charting extensions (Altova specific)
 - XBRL



Supported Specifications

W3C Recommendations

- Extensible Markup Language (XML) 1.0 (Fifth Edition)
- Extensible Markup Language (XML) 1.1 (Second Edition)
- Namespaces in XML 1.0 (Third Edition)
- Namespaces in XML 1.1 (Second Edition)
- XML Information Set (Second Edition)
- XML Base (Second Edition)
- XML Inclusions (XInclude) Version 1.0 (Second Edition)
- XML Linking Language (XLink) Version 1.0
- XML Schema Part 1: Structures Second Edition
- XML Schema Part 2: Datatypes Second Edition
- W3C XML Schema Definition Language (XSD) 1.1 Part 1: Structures
- W3C XML Schema Definition Language (XSD) 1.1 Part 2: Datatypes
- XPointer Framework
- XPointer xmlns() Scheme
- XPointer element() Scheme
- XML Path Language (XPath) Version 1.0
- XSL Transformations (XSLT) Version 1.0
- XML Path Language (XPath) 2.0 (Second Edition)
- XSL Transformations (XSLT) Version 2.0
- XQuery 1.0: An XML Query Language (Second Edition)
- XQuery 1.0 and XPath 2.0 Functions and Operators (Second Edition)
- XML Path Language (XPath) 3.0

W3C Working Drafts & Candidate Recommendations

- XSL Transformations (XSLT) Version 3.0 (subset)
- XQuery 3.0: An XML Query Language
- XPath and XQuery Functions and Operators 3.0

OASIS Standards

- XML Catalogs V 1.1 - OASIS Standard V1.1

XBRL Recommendations

- XBRL 2.1
- Dimensions 1.0
- Formula Specification 1.0
- Formula Specification
 - Aspect Cover Filters
 - Boolean Filters
 - Concept Filters
 - Concept Relation Filters
 - Consistency Assertions
 - Custom Function Implementation
 - Dimension Filters
 - Entity Filters
 - Existence Assertions
 - Function Definition
 - General Filters
 - Generic Labels
 - Generic Messages
 - Generic References
 - Implicit Filters
 - Match Filters
 - Period Filters
 - Relative Filters
 - Segment Scenario Filters
 - Tuple Filters
 - Unit Filters
 - Validation
 - Validation Messages
 - Value Assertions
 - Value Filters
 - Variables
- Function Definitions
- Generic Links



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