Altova® RaptorXML® Server is the third-generation, hyper-fast XML, XBRL, and JSON validation and processing server 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. RaptorXML supports all relevant standards and has been submitted to rigorous regression and conformance testing to achieve greater than 98% conformance.

Today, XBRL mandates and Big Data trends are producing huge, ever increasing amounts of XML, XBRL, JSON, and Avro data. Now, there is finally a modern, hyper-fast engine to validate and process all of it.

- 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
- XBRL Taxonomy Manager

- Parallel loading, processing, and validation
- Superior error reporting
- Streaming instance validation
- Streaming serialization
- Built-in HTTP server with REST validation API
- Python and .NET APIs

Supported Platforms

Hardware / CPUs

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

Operating Systems
- Windows
- Linux
- macOS

Developer Features

- Windows server mode and Unix daemon mode
- Python 3.x interpreter for scripting included
- .NET API
- COM API
- Java API
- XPath Extension functions
- Built-in HTTP server

Download a free trial now at www.altova.com

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)
- XQuery Update Facility 1.0
- XML Path Language (XPath) 3.1

W3C Working Drafts & Candidate Recommendations

- XSL Transformations (XSLT) Version 3.0 (subset)
- XQuery 3.1: An XML Query Language
- XPath and XQuery Functions and Operators 3.0
- XQuery Update Facility 3.0

OASIS Standards

- XML Catalogs V 1.1 - OASIS Standard V1.1

JSON Specifications

- JSON, JSON5
- JSON Schema -04, -06, -07

Avro Specifications

- Apache Avro™ and Avro Schema

XBRL Recommendations

- XBRL 2.1
- Dimensions 1.0
- Table Linkbase 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 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
- Functions Registry 1.0
- Generic Links 1.0
  - Generic Labels
  - Generic Messages
- Extensible Enumerations 1.0
- Units Registry 1.0
- XBRL Taxonomy Packages 1.0
- XBRL Generic Preferred Label 1.0
- XULE
- Open Information Model (OIM) 1.0
- EBA
- ESEF

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