

VortexXML Server

High performance automated conversion of structured text data into valid XML.

Key Features of VortexXML Server

- Works with profiles created by business users in VortexXML Designer
- Provides automatic submission of jobs through Monitor Service
- Offers ability to accept SOAP messages for easy integration with technologies such as .NET and Java
- Allows remote execution from web service and Java clients
- Works with MSDE and MS SQL Server
- Utilizes key Windows 2000 technologies for optimal performance
- Available in single or multiple instance configurations

WHAT IS VORTEXXML SERVER?

VortexXML Server is a comprehensive automation tool for the extraction and conversion of structured text documents into XML. It is expressly designed to empower business users to quickly and easily transform their operational data into XML.

The VortexXML solution is comprised of two powerful products that work together:

- **VortexXML Designer** provides users a visual interface that allows them to build and test re-useable profiles (read the section “How VortexXML Server Works” on the back for an explanation of profiles) to extract, transform and map data from existing text documents into XML without programming. VortexXML Designer may also be used for simple one-time conversions.
- **VortexXML Server** provides a scalable, high-volume product that automates the extraction and conversion of text documents into XML. It includes facilities that perform automated processing of profiles created by VortexXML Designer as well as a simple API.

WHO SHOULD USE VORTEXXML SERVER?

VortexXML Server provides mechanisms for automating the conversion of documents from enterprise systems into XML. It is the ideal solution for any organization that has requirements to:

- Convert high-volumes of text data to XML
- Automate complex conversions and transformations
- Run conversions on a recurring basis
- Trigger XML conversions based on file creation
- Document successful completions and issues associated with completed jobs

- Invoke conversion remotely through a web service via Java, .NET or any other SOAP enabled client

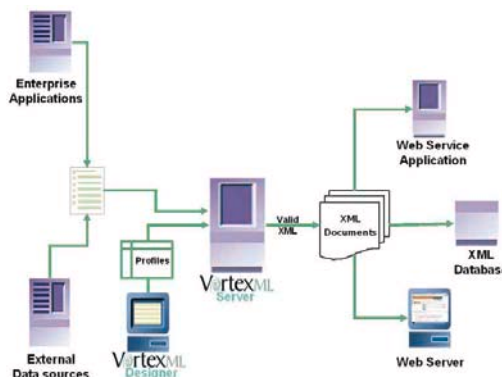
BUILT FOR PERFORMANCE

VortexXML Server takes advantage of Windows 2000 Server core technologies: Com+, MSMQ, and MSDE to provide a high volume XML conversion solution. Using core technologies, VortexXML is able to optimize performance by:

- Allowing multiple instances of the conversion engine to run reliably
- Utilizing a high-performance database engine for optimal throughput
- Accepting execution commands from remote applications

Furthermore, as Microsoft releases performance upgrades to these core technologies as well as clustering and distributing extensions, VortexXML Server will be able to take advantage of them.

Developing the Server under COM+ allows multiple instances of the conversion engine to run, limited only by system resources on the appropriate versions of VortexXML Server. Administrators can optimize performance and manage peak utilization



Typical VortexXML Server process flow from output documents through conversion to valid XML to end-use.

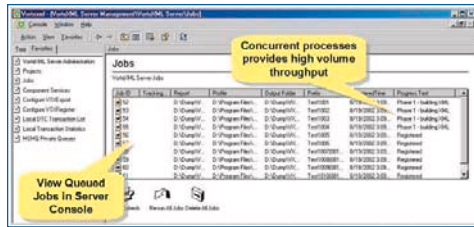
Minimum System Requirements

Hardware:

Pentium III
256 MB RAM
100 MB disk space

Software:

Microsoft Windows
2000, XP
(Microsoft SQL Server 2000 recommended for systems using more than 2 CPUs)



VortexXML can execute multiple processes at the same time for high performance throughput.

through the tools available with Windows 2000 Server Microsoft Message Queue (MSMQ) allows VortexXML Server to manage the creation of projects and the execution of jobs concurrently. VortexXML server's ability to handle communications asynchronously assures that the product will be able to execute jobs independent of additional processes.

During the execution of jobs, VortexXML server will persist data regarding the processing and administering of jobs in either the SQL Server 2000 or Microsoft Database Engine (MSDE) if SQL Server is not available. By using these components VortexXML Server throughput is at least two to ten times faster than that of the Designer, which uses the Jet Engine internally for transformations. For high-volume multi process installations, further performance improvements are possible through the tuning of the database engine. Regardless of tuning, MS SQL Server 2000 is recommended for all installations involving more than two processors.

HOW VORTEXML SERVER WORKS

VortexXML Server relies upon profiles created by VortexXML Designer to guide the conversion process. These files contain data extraction, filtering, calculation, transformation and mapping rules that are used by VortexXML Server to create XML output. Each distinct document type, such as invoices or purchase orders, has its own profile with the instructions for processing the input and output requirements. VortexXML Server matches the profile with an appropriate input data set to perform the XML conversion. All of the information regarding the profile, input file name and location, output location and output file prefix is stored as a project in the database and is accessible from the VortexXML Server Administration Console.

As files appear, VortexXML Server submits jobs to MSMQ from the appropriate project. Administrators can then monitor any job's progress.

Jobs can be instantiated in three ways:

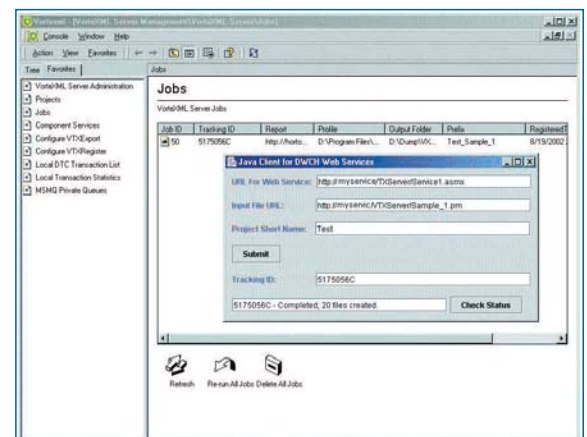
1. As files appear, the file system's monitor service notifies VortexXML Server to instantiate a job from the appropriate project. A job is then queued within MSMQ to begin the XML conversion of the file.
2. The administrator can start jobs manually by selecting the appropriate project and queuing its execution.
3. Jobs can be instantiated remotely through SOAP Messages (Read Sidebar for additional information about using VortexXML as a web service)

VORTEXML SERVER AS A WEB SERVICE

VortexXML Server can be configured to function as a web service. This allows the submission of SOAP messages over HTTP to remotely submit jobs from a URL, check job status and return the resulting XML or a reference to a URL where the XML resides. This allows easy integration with technologies such as Java and .NET.

The web service implementation requires MSSOAP 3 and IIS 5; alternatively the web service can be implemented using .NET, if the .NET Framework is installed.

Sample source is available for .NET, SOAP and Java clients with the purchase of VortexXML Server. Additionally a Java class is available for simple creation of SOAP messages for VortexXML Server.



An example of VortexXML Server being accessed from a Java Client via the web service.



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