



## The Next-Generation XML Server

# Concept, Benefits and Features

Do you need a way to efficiently manage all types of content across your entire enterprise? Do you want to Web-enable your existing back-end IT systems and have high-speed access to data stored in native XML format? Tamino XML Server from Software AG - a high-performance data management platform based on standard Internet technologies - is your answer. Tamino will empower you today to build mission-critical and platform-independent systems to conduct tomorrow's electronic business.

### CORE SERVICES

Tamino XML Server's core is composed of mechanisms for querying, browsing and maintaining your business data, as well as for configuring and administrating Tamino systems with minimal effort.

### ENABLING SERVICES

Tamino's middle layer consists of enabling services that add value to the core through a broad range of easy-to-use tools, components and frameworks that simplify and accelerate storing, managing, publishing and exchanging electronic documents over the Internet. With these services, Tamino is the most productive foundation for enterprise-scale XML-based solutions on the market.

### SOLUTIONS

Solutions form the outer layer of Tamino XML Server. They can be based on custom specs and be built by Software AG Professional Services. More importantly, the range of independent Software AG partners is steadily growing, offering Tamino-based out-of-the-box solutions for many different purposes. Tamino XML Server is al-

ready used in hundreds of custom applications worldwide as well as in many solutions from well-known Software AG partners.

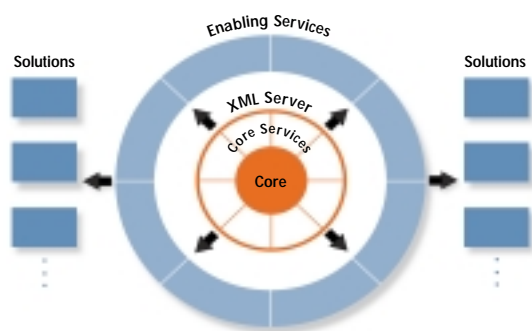
The most interesting areas in which Tamino solutions can be employed include:

- Cross-platform publishing
- Content management
- Document management
- Supply chain management
- Document-centric applications in the context of a collaborative Web-based environment.

### BENEFITS

Tamino's architecture has been engineered with XML in mind from the ground up. Its high-performance server technology is based on Software AG's decade-spanning experience in developing extremely reliable database management systems. The resulting system and solutions based on it offer customers a host of compelling benefits:

### Tamino - Conceptual View



**Scalability** – Tamino is available on all major operating systems and platforms including Windows, Unix, Linux and mainframe. This means that your Tamino servers can grow with your business.

**Efficiency** – Because XML documents are stored in their native format, no conversion is necessary.

### Easy administration and use

Tamino can be used via the Web with a browser-based GUI.

### Significant cost/time savings

Tamino offers native XML storage of whole XML documents and the capability to efficiently search and retrieve these documents or just specific parts of them.



### Enterprise-wide connectivity

Tamino supports fragmented corporate IT through services that enable simple data access via Tamino X-Node and application integration via Tamino X-Tension and EntireX, Software AG's integration server.

### Maximum security and availability

You can entrust Tamino to protect your electronic business even if other back-end systems, including heterogeneous sources, do not support 24x7x365 operation. With Tamino deployed as your central staging server, sensitive corporate data can be made available to the Web safely through regularly updated copies.

**Collaboration** – Tamino enables total collaboration among business partners through services and solutions for persistent storage, rule-based transformation and forwarding of industry-specific electronic documents in Web-services environments.

### FEATURES

**Tamino's native XML store** keeps electronic documents intact and provides persistence, thus helping to keep track of business transactions in accordance with legal and government requirements (auditing).

### Storage of all types of data

Tamino XML Server accepts "well-formed" XML documents and any other type of non-XML data for

storage, including office documents, audio, video, PDF files, etc. There is no need to create schemas before content can be stored.

### Extensible by definition

Adding new elements to stored XML documents is as simple as adding a new element to the associated schema, which is also stored in Tamino. This leads to significantly lower administration costs as compared to the complex adaptation of the data model required for RDBMSs when changes are made.

**A Find engine** enables fast retrieval of XML-based content. Tamino provides standard XPath-based query capabilities<sup>1</sup> in combination with sophisticated indexing technology.

**Full-text retrieval** is included in Tamino at no extra cost. It is ideally suited for searching in non-indexed parts of XML documents, well-formed documents or plain-text passages.

**Data consolidation** – Tamino provides a single-server view of business data residing in distributed data sources.

**Multi-channel output** capabilities are provided to support device-independent publishing of any stored content. Supported formats include XML, HTML, WML or PDF documents.

**Server extensions** allow for customized functionality and application integration. Tamino X-Tension enables application-specific, server-side features to be easily programmed in C++, Java or other COM/DCOM-enabled languages and provides for tight integration with EntireX middleware.

Tamino XML Server is based on **open Internet standards** supported by all major vendors. Its open nature allows URL-based access and administration via standard Web browsers and TCP/IP, HTTP or WebDAV<sup>3</sup> APIs. Tamino supports<sup>4</sup> all major W3C recommendations such as XML, XML Schema, XSL, XSLT, DOM, SAX, XPath (functionality extended in Tamino), XQuery, SOAP and others.

### Support for application servers

Tamino supports J2EE-compliant application servers in storing and managing XML and non-XML documents in a scalable fashion. The new Tamino Java API allows for the creation of Enterprise Java Beans, utilizing the connection (pooling) and transaction management capabilities of J2EE.

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<sup>1</sup> XQuery will be supported when ratified as a W3C standard  
<sup>2</sup> On Windows systems only  
<sup>3</sup> In combination with Software AG's Tamino WebDAV Server, documents can be stored to and retrieved from Tamino XML Server with drag-and-drop functionality  
<sup>4</sup> ... or will support ...