

Tamino

Release Notes

Version 8.2.2

October 2013

This document applies to Tamino Version 8.2.2.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 Release Notes

This document contains an overview of the features of Tamino XML Server 8.x that have been introduced or modified since the previous release (Tamino XML Server 4.4). If you have an existing Tamino installation, please refer also to the *Migration Guide* for information about migration from your current system to Tamino 8.x. The *readme.txt* file may also contain information that you should be aware of before you use Tamino 8.x.

Tamino 8.x brings new and improved features in the areas of :

- Support for additional platforms:
 - Windows Server 2008 Standard and Enterprise Edition
 - Windows 7 Professional, Ultimate and Enterprise Edition
 - SUSE Linux Enterprise Server 11 for IBM System z
- Using Tamino as a metadata repository, including improved support of WebDAV and web services
- Performance and Robustness
- Usability and Developer Support

The information is organized under the following headings:

Summary of New and Changed Features	Gives an overview of the most important new features of Tamino 8.x.
Removed Features	Lists the features that are no longer available with this Tamino version.
Notice of Future Changes	Informs you about features that will change in future Tamino versions.
Miscellaneous Topics	Discusses a number of broadly-focused topics.

2 Summary of New and Changed Features

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These sections provide information on the main new and changed features of this release:

Support for Additional Platforms

- Windows Server 2008 Standard and Enterprise Edition
- Windows 7 Professional, Ultimate and Enterprise Edition
- SUSE Linux Enterprise Server 11 for IBM System
- Red Hat Enterprise Linux Server 6 for IBM System z

Easier Administration

■ **Reworked Tamino Manager**

The user interface has been modified to comply with design standards for user interfaces for the Software AG webMethods product line. Many of the icons have been updated, and the color scheme used in the dialogs has been adapted. Where appropriate, new functionality has been added to the dialogs, for example, the ability to select an incremental backup during the backup or restore procedure.

■ **Incremental backup and restore**

It is now possible to make incremental backups of a database. An incremental backup after a full backup saves only the data that has changed since the full backup. If several incremental backups are made without an intervening full backup, each incremental backup stores only the data that has changed since the previous incremental backup. Since incremental backups can be very much smaller than full backups, the time required for creating and restoring the incremental backup is generally much less than for a full backup.

Enterprise Features

The following features improve Tamino's value in your mission-critical applications:

- Backup generates smaller files faster;
- Instance-based security;
- Improved performance;
- New optimizer rules;
- Reporting capabilities.

Indexing Improvements

Several significant improvements that can bring real performance gains to your applications have been made to Tamino's indexing facilities:

- New index structures, including computed indexes (see Performance Guide > Advanced Indexes > Computed Index, and also Tamino Schema Editor > Properties Explained > Tamino Doctype Properties);
- A generic text index (see Advanced Concepts > From Schema to Tamino > Indexing);
- Additional Office Open XML document types are supported by the Tamino Non-XML Indexer.

XQuery

XQuery can now be used as the universal interface for all administration tasks. New features include:

- XQuery support has been extended to allow queries to create and update database objects. This supplements the existing functionality for querying or deleting database objects. This functionality follows the XQuery Update Facility 1.0 specification (<http://www.w3.org/TR/xquery-update-10/>, W3C Candidate Recommendation, August 2008).
- Support for applying XQuery to Tamino's non-XML storage and retrieval capabilities has been enhanced, especially in connection with Tamino's implementation of the HTTP extensions to the WebDAV standard (<http://www.ietf.org/rfc/rfc4918.txt>).
- New XQuery built-in functions have been added, as accordance with the XQuery Functions and Operators recommendation (<http://www.w3.org/TR/xquery-operators/>). The built-in functions include list functions, text functions, date-time functions and a numeric function.
- Support for XQuery modules has been added in the Tamino X-Plorer. Now it is possible to create XQuery modules directly in the Tamino X-Plorer and store them in Tamino for later retrieval.

Stored XQuery modules also play a key role in the use of the new **computed indexes**.

- The performance has been significantly enhanced.

The Software AG Designer

The Software AG Designer is a Software AG-specific version of Eclipse (<http://www.eclipse.org/>) that can optionally be installed with Tamino. The plugins integrated in this Eclipse support various features as summarized in this section.

XQuery Modules as Web Services

The Software AG Designer allows you to create a web service from an XQuery module, exposing a user-defined subset of the XQuery module functions as operations of the created web service.

Tamino Doctypes as Web Services

The Software AG Designer allows you to create a web service from a Tamino doctype, exposing "create", "read", "update" and "delete" operations (CRUD) on the selected doctype. This is done by creating an XQuery module with the CRUD functions and exposing these functions via a web service. The XQuery module contains the functions that represent the CRUD operations. The functions are defined as follows:

- **create**
Take a document and optionally a document name as input and return collection, doctype and ID of the created document.
- **read**
Take a document ID and/or a document name as input and return the requested document.
- **update**
Take a document ID and/or a document name and a document as input and return collection, doctype and ID of the updated document.
- **delete**
Take a document ID and/or a document name as input and return collection, doctype and ID of the deleted document.

BIRT Reports

BIRT (Business Intelligence and Reporting Tools) is an open source software project that provides reporting capabilities. BIRT offers its reporting capabilities upon a multiplicity of data formats, including XML data. Now, you can display Tamino data as BIRT reports.

The BIRT plugin for the Software AG Designer allows you to specify the database where the data is stored, the XQuery code to retrieve the data, and the required report layout.

Tamino Tools

Tamino Schema Editor

The following updates are now available:

- **Computed Indexes**

Computed indexes are fully supported by a rich set of UI components in the Tamino Schema Editor. The Schema Editor also allows you to define the collation property for each computed index of a doctype.

- **Printing Support**

Printing and print preview are now supported directly in the Tamino Schema Editor.

- **Triggers with Parameters**

The user interface for specifying a trigger now allows you to specify multiple trigger functions of the same type. You can also specify a set of parameters and pass them to the Tamino server whilst defining the schema. For further information, see Tamino Schema Editor > Editing a Schema > Server Extensions

- **User-Friendliness Improved**

The Tamino Schema Editor now uses easily understood properties instead of XML attributes.

The user interface has been improved.

Context menus (right mouse button) are now provided for schema tree nodes, schema tabs and in the code view.

Tamino X-Plorer

The following updates are now available:

- **Document Editing**

The Tamino X-Plorer now supports editing text documents, whatever their source. The document can, for example, be an instance of a doctype, a non-XML text document or a text document in a WebDAV folder.

- **Editing Collection Properties**

The restructured collection properties dialog has additional options to control the server's end-of-line property.

- **User Interface**

Basic editing functions are available, together with *cut*, *copy*, *paste*, *select all*, *find* and *replace*.

■ **XQuery in Filter Settings**

A filter condition can be expressed as an XQuery instead of using XPath notation. It is possible to define namespaces.

Tamino Query Tool

The following updates are now available:

■ **Collection Name Optional**

The Tamino XML Server now regards the collection name as optional. This policy has also been implemented in the Tamino Query Tool.

■ **Specifying Server and Database**

You can select the desired server and database via the graphical user interface. This makes selection easier and less error-prone.

■ **Working with XQuery Modules**

You can use the Tamino Query Tool to administer XQuery modules. You can open and save XQuery modules from both local and remote locations.

■ **XQuery Scratch Pad**

The Tamino Query Tool can be used as an XQuery scratch pad. This makes it easy to execute a part of a complex XQuery.

Instance-Based Security

Up to now, access control mechanisms in Tamino were restricted to structure-based mechanisms on collections, document types or elements and attributes of certain documents.

Tamino 8.x provides instance-based access control, which means that it is now also possible to define access control for each document, thereby enabling Tamino as a directly accessible document repository in a multi-user environment.

Using a system of access control lists (ACLs) and access control elements (ACEs), you can set up access privileges for document instances, so that users or groups are either granted or denied permission to access the instances.

Interface to Subversion

Tamino now has an interface to the popular open source version control system Subversion. This feature is described in the Subversion Overview section of the section *Tamino WebDAV Functionality*.

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Removed Features

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The following functionality that was available in Tamino 4.4 has been removed from Tamino 8.x:

Automatic HTTP Server Configuration

The Tamino installation procedures no longer automatically configure your HTTP server (for example, Apache or Microsoft IIS). If you wish to access a database via HTTP, an HTTP server must be available and you must configure it manually. Full instructions are in the section *The Tamino Installation Guide* > Before You Start Using Tamino > Configuring the Web Server.

COM Server Extension Infrastructure

(Windows only.) Tamino used to provide server extension infrastructure for writing server extensions in COM (C++, VB, Natural etc.), Java and Direct (C++). The COM infrastructure, which is the original server extension infrastructure, has been removed.

UDDI Support

UDDI support, which was previously available in Tamino, is now provided in [CentraSite](#). Please refer to the section *Access via UDDI* in the CentraSite documentation for further information.

Welcome to Tamino

The “Welcome to Tamino” application is no longer available in Tamino 8.x.

4 Notice of Future Changes

Please note that the following changes are planned for future versions of Tamino:

■ Multiple Users

It is possible to have multiple different users within one single session. To achieve a high-performance security concept, it will not be possible to use more than one user in a session in future versions of Tamino, so this feature should not be used any more. Application developers should avoid designing applications that use many users in one session.

■ Removal of Old Transaction Syntax

Old transaction syntax will be removed from a future Tamino version. Therefore it is recommended:

- for direct HTTP requests: not to use the parameter `isolation`;
- for Tamino API for Java: not to use any methods with parameters of the class:
 - `com.softwareag.tamino.db.api.connection.TIsolationLevel`
 - `com.softwareag.tamino.db.api.connection.TConnection.getIsolationLevel()`
 - `com.softwareag.tamino.db.api.connection.TConnection.setIsolationLevel(TIsolationLevel isolationLevel)`

■ Removal of Compatibility Mode for Tamino Server Extension Callback Function `SxsXMLXql()`

The Tamino server extension callback function `SxsXMLXql()` can operate either in namespace-clean mode or in compatibility mode. In compatibility mode, the XML result yielded by the callback function is consistent with the result that would have been yielded by previous versions of Tamino; it is not necessarily parseable. Compatibility mode is provided as a convenience to users who have existing application programs that have not yet been re-written to accept namespace-clean XML.

Compatibility mode will be discontinued in a future release of Tamino, and all results yielded by the callback function `SxsXMLXql()` will be namespace-clean. Users are recommended to ensure that their applications can accept namespace-clean results from the `SxsXMLXql()` callback function.

For further information, see the documentation section [X-Tension: Tamino Server Extensions > Developing Tamino Server Extensions > XML Callbacks](#).

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Miscellaneous Topics

Coexistence of several Tamino versions

Tamino XML Server 8.x can coexist with all previous versions of Tamino XML Server on one computer. With the Tamino Manager, it is possible to administer Tamino XML Server 8.x and versions of Tamino XML Server 4 simultaneously. There are some restrictions as described in the *Tamino XML Server Installation Guide* (available on <http://documentation.softwareag.com>).

However, if you have an existing Software AG product that uses Tamino as the database engine, coexistence of Tamino XML Server 8.x and the Tamino database engine of the other product on the same machine is not guaranteed.

Migration

It is not necessary to migrate schemas or data from version 4.4 or 8.0 to version 8.2; it is merely necessary to set the version of existing databases. Please see the *Migration Guide* for details.

 **Important:** If you wish to migrate to version 8.x from a version earlier than 4.4, you must migrate to version 4.4 first.

For information about migration to version 4.4 from versions earlier than 4.4, refer to the documentation for Tamino version 4.4 in Software AG's web-based Product Support System, Empower, at <https://empower.softwareag.com/>.

License file issues

It is necessary to provide a Tamino 8.2 license file to install this version of Tamino XML Server properly. The server components do not run with license files from earlier versions of Tamino. The development components, though, can be installed without an additional license file.

Tamino Developer Community

As a source of valuable information and help, developers can refer to the Tamino Developer Community web site (<http://communities.softwareag.com/ecosystem/communities/public/de->

[veloper/webmethods/default.html?product=tamino](#)). There you can find discussion forums and further services.

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