

Websyidian v4.01 has now been released. This service release contains a number of enhancements to Websyidian TransacXML, as well as bug fixes to the Distributed Websyidian Architecture and Websyidian run-time objects. Bug fixes are included for Websyidian v3.0, v3.1, and v4.0.

Automatic Generation of DTDs

TransacXML now supports automatic generation of DTDs (Document Type Definition). DTD generation can be used to create a DTD representing an implemented XML data model. This can be used to verify the implemented model against a given DTD or to provide the DTD for construction of compatible web services. The created DTD can be transformed into other formats such as XML Schema or WSDL (Web Services Description Language) using 3rd party tools such as XML Spy.

Productivity Enhancements in TransacXML

Based on the feedback we have received from users of TransacXML we have added two productivity-enhancing features to TransacXML. First, *GetFirstOccurence* is introduced as a fast way to retrieve the first element of a given type in a document. This function eliminates traversing complex XML structures and increases development productivity significantly. Second, direct references to the previous and next element of the same type are

now returned from the data access functions (SingleFetch, UpdateRow, DeleteRow, and InsertRow) eliminating additional navigation for trivial tasks such as fetching a list of records.

COM Support in Windows Implementations

The Windows implementation of TransacXML has been rewritten to use COM instead of VB Script. The VB Script implementation caused a memory leak when used together with the Distributed Websyidian Architecture and required an unused panel object to be scoped under XML functions in the Plex model. The need for scoping panels has now been eliminated. Furthermore the COM implementation of TransacXML improves performance for large request handling.

Bug Fixes

This release contains a number of fixes for the currently supported Websyidian versions 3.0, 3.1, and 4.0. In the latest fix package we have addressed bugs in the Java, and iSeries runtime environment.

As this is a cumulative fix package all fixes prior to this fix package release are also included. Customers using Websyidian versions prior to Websyidian 3.0 are strongly recommended to upgrade to the latest version of Websyidian. The cumulative fix package can be downloaded from our support site along with further information.

Bug Fixes in This Release

Architecture	Platform	Description
All	iSeries	Potential memory leak in iSeries runtime objects
DWA	All	Websyidian Server fails when receiving information about unknown tokens Websyidian Server wrongfully reported other instances of the Websyidian Server started Relay Service only adds session for request type application/x-www-form-urlencoded Relay Service fails if user presses cancel button during download of binary data
	Java	Error in Application Service handling of binary data buffering
	iSeries	Starting Application Services using the command STRAS now takes routing data from job description
		Potential deadlock between Websyidian Server and Application Service Controller