TX TEXT CONTROL

TX Text Control .NET Server Solutions

Server-Based Document Processing

An executive overview on how to create, modify and convert business critical documents with server-side business applications.

Create.

Enterprise level, server-side document processing

A current trend in enterprise level document creation and publishing is to migrate processes to centralized server-based applications. TX Text Control .NET Server, the fully programmable word processing engine for deployment in an ASP.NET server environment, assists enterprises to realize this challenge.

Business critical documents must be always up-to-date and customized depending on the recipient or the publisher.

Today's optimized business processes demand that information is immediately accessible to stakeholders inside and outside a company. Typically, this information needs to be available in a wide range of formats and customizable for every reader. Using TX Text Control .NET Server based solutions, print-ready documents can be generated on-the-fly, using information from a set of databases and user data from a web browser. The resulting document can be displayed in the browser, saved to disk, stored in a database or sent by e-mail. As documents are generated on-the-fly, they must not be physically stored on the server. This reduces redundancy and, at the same time, gives users direct access to up-to-date, live information.

TX Text Control .NET Server can combine data from various sources (XML, HTML forms, databases, MS Word documents) to build documents that can be saved in a number of formats:

- **MS Word**
- **Adobe PDF**
- **Rich Text Format**
- **HTML**
- **ANSI**
- **Internal TX Format**

For example, an invoice from an online store can easily be created, combining data from a web user with article and pricing data from a database. The resulting print-ready encrypted Adobe PDF file can be automatically sent to the web user and the accounting department. These processes can be easily integrated into enterprise workflow applications.

Template-Based Document Processing

Using TX Text Control .NET Server, documents can be programmatically built from scratch, combining data from a multitude of data sources with formatting information from templates. Such templates consist
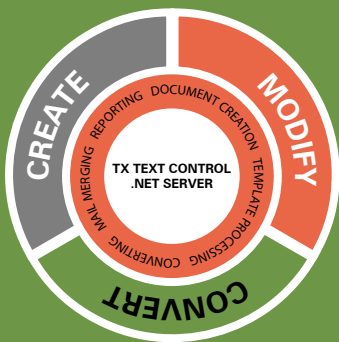
KEY BENEFITS

- Centralize document creation and publishing processes
- Personalize documents depending upon their recipient or author
- Ensure documents are always stored in their most current version
- Create documents in DOC, PDF and RTF, independently from any third party software
- Merge templates with data from a multitude of data sources
- Merge various document types into one unified document
- Create HTML data entry forms to be used in a template
- Easily integrable into enterprise workflow applications
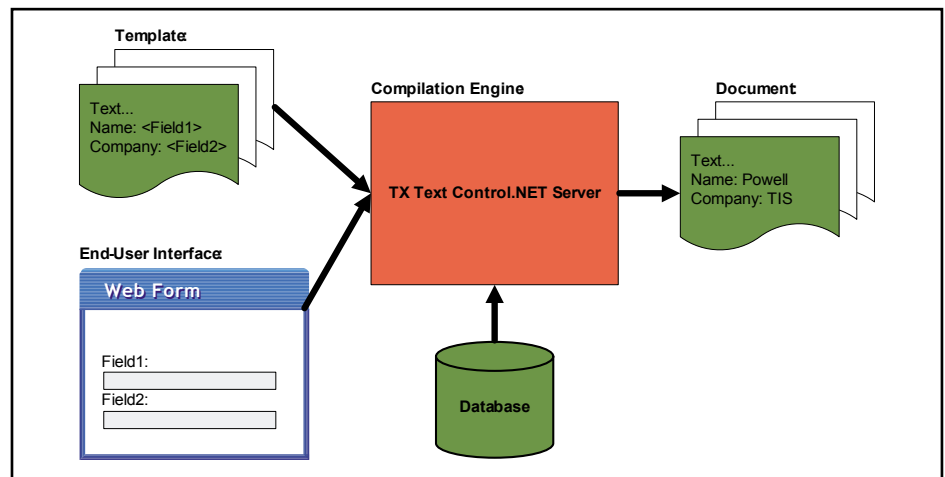- Programmatically generate documents on-the-fly

of a number of variables, text fields and page layout information. Typically, they are stored in a centralized location, so as to ensure the enterprise-wide constancy of documents, underlining the corporate identity of the enterprise.

During the document compilation process, text fields in the template are substituted by information from the application's data store. This compilation process is illustrated in the following diagram:

be sent back to the end user.

In this process, TX Text Control .NET Server is deployed to create an HTML form, based on a previously designed template that contains the required text fields. This creation process takes place in real time: The HTML form is not previously stored, but generated from the template when it is required.

After the HTML form has been submitted back to the server, its data is merged with the template

FEATURES

- Supports XML, PDF, CSS, RTF, HTML, DOC, ANSI, Unicode and many more

- Images formats: JPG, GIF, PNG, WMF, BMP and TIF

- Complex nested tables, headers, footers, text frames, text fields, bullets, numbered lists, images

- Password secured, encrypted Adobe PDF documents with different access permissions

- Object-oriented classes, designed for Visual Studio .NET (.NET Framework 2.0 ready)

TX Text Control .NET ships with a specialized application to assemble templates. TX Template Designer is a true WYSIWYG template designer that facilitates designers the simple creation and editing of templates. Consider the following example:

A registration form has been designed with the aim of collecting data from an end-user in a browser based application. The information that is collected from the HTML form is to be merged into a template and the resulting document to

to create the resulting populated PDF based form. This document can now be sent automatically to the end-user and other parties involved in the dissemination of the document's content.

The advantage of this server side approach to data acquisition and document population is the homogeneity of the resulting documents: As only one template is used to format all documents, their look and feel always remains identical.

Convert.

Outstanding Performance

TX Text Control .NET Server has been specifically designed to run in server side applications and therefore does not have an user interface. All interactions with TX Text Control .NET Server are performed programmatically from application code, making it ideal for batch processing or printing large volumes of documents. We have set up a number of tests in the TX Text Control laboratories to examine the three major characteristics of server-side document processing: speed, reliability and stability.

The benchmark tests* simulated concurrent requests to TX Text Control .NET Server. An ASP.NET application loaded a three page document, searched through the entire document for a textual string and replaced it with another string. Then, the document was exported as RTF and saved on the server in another directory. The benchmark time includes the file loading process, the find and replace and the file saving.

The first graph illustrates the number of requests per second that are executed by TX Text Control .NET Server.
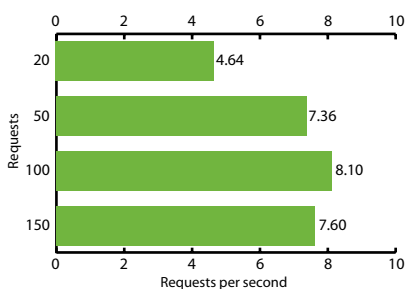
The number of requests was increased and saturation finally arrived at an average of 7.6 requests per second.

The second graph shows the time per request which indicates the time that is required to process one document. An average request took less than 150 milliseconds.
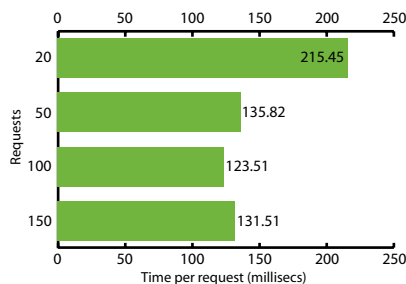
*Benchmarking at www.textcontrol.com

What's Next?

Our TX Text Control consultants are looking forward to assist you with all inquiries. We would be glad to help you with the planning of a server-based document processing application. Just contact us and download the fully functional trial version:

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SERVICES

- Free access to highly qualified technical support
- Unlimited support incidents
- Free TX Text Control .NET Server integration consulting
- Rapid response support via telephone and email

ABOUT

TX Text Control was originally released in 1991, since then more than 35,000 copies have been sold. Starting off as a single, small DLL, TX Text Control has made its way through 16-bit DLL and VBX to today's .NET and ActiveX components. Customers benefit from these years of experience, large user-based, and at the same time, appreciate developing with a mature, reliable component.

Companies using TX Text Control:

DATEV AG, SIEMENS AG, FORD MOTOR COMPANY, DEUTSCHE BANK AG, US AIR FORCE...

...and many FORTUNE 500 companies.