

## Organization Background

In October 1997, the US Air Force program office, along with the Oklahoma City Air Logistics Center AWACS Engineering Branch at Tinker AFB, established a vision to support its users with online, state-of-the-art electronic technical manuals. The online system has made more than 150,000 pages of 275 AWACS technical orders available on the web.

## The Need

The source file for the AWACS Technical Order project is standard USAF SGML. Veridian Systems Division built the Transition Process Manager (TPM) to transform the SGML into XML. TEXTML Server is integrated into TPM and supports the search function. Veridian also leveraged automated functions within the TEXTML application to solve some of the internal interface and integration issues. There were two reasons for moving from SGML to XML. The first was to exploit the mass distribution of Internet Explorer 5.0+ in use by the USAF for viewing and browsing the technical orders. This made our solution easily and widely usable at no additional cost. The second reason was to provide a more flexible document base for search and manipulation.

## The Challenge

- Manage the transition between SGML and XML
- One of the most knotty problems was the need to search structured data without resorting to a formal database. Being able to search and access the AWACS airplane technical documentation through a web interface was essential

## The Solution

TEXTML succeeded and prevailed in the development process and was thus selected as the preferred application. As a result, the Air Force Common Viewer, a content management system based on TEXTML Server, was designed for this project. Transition tools were developed with TEXTML Server as the back-end engine, providing for dynamic conversion of SGML to XML. TEXTML Server is managing over 150,000 technical documents. Everything is available through a IE 5.x browser wherever the user's location in the world.

### US Air Force

**Organization:**

US Air Force

**Industry:**

Aerospace

**Type of Application:**

Technical documentation

**IXIASOFT Solution:**

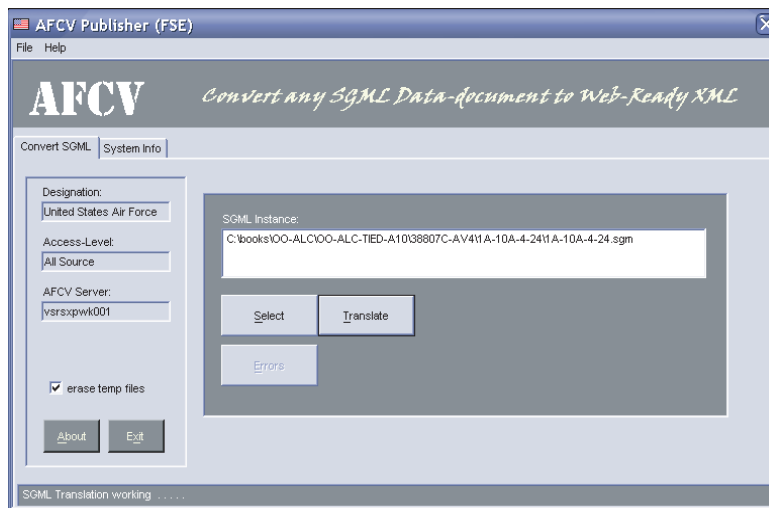
TEXTML Server

**Critical functionalities:**

- Fast and easy implementation
- Simple query
- High-speed search engine
- Flexibility

**Partner Involved:**

 Veridian Systems  
[www.veridian.com](http://www.veridian.com)



## Results and Benefits

- Direct: Savings of \$500,000/year
- Indirect: Immediate savings of \$2.5 million client licenses for the technical documentation viewer
- Improved access to information users around the globe.
- Ability to update manuals in real time
- TEXTML Server is now being examined to be the back-end engine of the entire USAF documentation management system

## About TEXTML Server

TEXTML Server is an XML Content Server whose purpose is to store, index and retrieve XML content. It is the first embeddable XML Server for OEMs and developers of XML applications. It is designed as an OEM product to build document-centric XML applications, such as content management systems, or solutions for electronic technical manuals. The key advantages of TEXTML Server include the ability to combine full-text and metadata search, speed of execution, schema independence, ease of integration, and aggressive OEM-g geared pricing model.

"The implementation process was simple and the outcome is exceptional in terms of its functionality, real time access and the savings that the US Air Force is deriving from its installation."

Joe Alt,  
Program Manager,  
**Veridian Systems,**  
Information Systems  
Sector