


# FILNET CASE STUDY

## District of Columbia's State Education Office OneApp

CLIENT	 District of Columbia's State Education Office
PROJECT	OneApp
WEBSITE	http://www.seo.dc.gov
TECHNOLOGY	.NET, C#, MS SQL
DURATION	02.2005 - 03.2005

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## Overview

The District of Columbia State Education Office (SEO) undertook a large project to integrate several student data applications into a single system. The applications were integrated into a single database and then a single web-based user interface was created. The resulting application manages a very large dataset and is available to DC students through the main DC web portal. SEO programs are the primary resources for students to acquire financial aid for college.

SEO recruited Filnet to developed solutions for the database and web interface integration challenge when one of its vendors failed to fulfill the terms of project . Time, naturally, was not on the side of Filnet or SEO. With knowledge of DC's Windows based environment and technology requirements, Filnet was able to take over the project and complete the task on schedule and within budget.

## Challenge

The OneApp project integrated three large SEO data management and processing applications into a single system. LEAP, DCTAG and DCAdoption are applications that capture and store a significant amount of data for District high school students. The applications were written in different languages and each served as a stand-alone application. Each had its own database and independent data schema. The OneApp project required the development of three primary tiers—a web-based front end that could integrate with the DC portal, a middle tier that stored significant data and a complex database. The application needed to manage three distinct processes and three different sets of business rules and requirements.

## Solution

The tiered-architecture required the Filnet team to work on all three layers. A particular challenge was the need for an extensive middle-layer that served as a "persistence layer" that stored data in order to significantly improve performance. The application requires the management and access to large amounts of data and performance standards dictated that this middleware was necessary to minimize the number of database calls. Filnet also built a C# front-end that managed this functionality and utilized data and processes in both the database and middle tier. Filnet came into the project after another vendor had been relieved and had to make significant adjustments and re-writes of the core code base. We also had to modify the data schema and stored procedures in the MS SQL database.

## Results

Within an extremely tight deadline, Filnet provided the District of the Columbia's State Education Office with the right solution for its data and web integration technology challenge. Today, the OneApp application is online and provides college-bound District students with "one-stop shopping" for financial aid. The single interface allows students to use one or all of the District's financial aid systems from a single

location. The system provides a more robust application that can handle large numbers of users, and large datasets required to manage student financial aid applications. The system also greatly eases the data management tasks that SEO requires. The system improves data management and has greatly lowered the cost of maintaining the systems. The reporting and administrative tasks have also been significantly simplified and data quality has improved.