



## Case Study: Springfield Police Department



**Summary:** The Springfield Police Department of Springfield, Massachusetts, is a public law enforcement agency in the largest urban city in Western, MA with a population of nearly 154,000. The Springfield Police Department has 150 end users.

**Challenges:** The assessment of the client's environment was done in March of 2011. They at that time had seventeen (17) servers that contain approximately 3TB of data. Some of these servers were aging, and the client was considering implementing a virtual server infrastructure that will not only serve their consolidation needs but will also provide a highly available infrastructure. The high level results of that assessment showed that the existing 17 servers currently in service could be consolidated onto three VMware ESX Hosts. For the purposes of this engagement WCA provided a sample design for virtual infrastructure components, pricing, and a methodology for the project corporate programs.

**Solution:** Based on the data collected, it was determined that the existing workload could be consolidated onto three VMware ESX host servers. The proposed solution was built on the Dell Server platform and utilized the EMC SAN for shared storage to support both the virtualization high availability. The solution included the installation of the new virtual infrastructure, the implementation of three (3) new Virtual Servers to replace the aging physical servers, and the migration of data applications. The proposed solution also provided high availability. In the event that one of the physical servers experiences a failure, the virtualization components allow the remaining server(s) to continue hosting all the virtual servers.

**Benefits:** The proposed consolidation strategy provides the Springfield Police Department with an infrastructure that provides high availability for all their existing servers while decreasing the number of physical components. The new infrastructure provides a financial payback by reducing the power consumption as well as reduces the heat produced which will reduce cooling costs in the data center.

### Industry

Municipal / Law Enforcement

### Environment

- Servers
- Storage

### Challenges

- Reducing Costs
- Expanding Storage
- Network Speed

### Solution

- New physical servers & shared storage
- New VMware virtualization hypervisor
- Professional services