



[www.ccsinv.com](http://www.ccsinv.com)

Cost Containment Strategies, Inc. (CCSI) was founded in 1989 in order to address the specific inefficiencies challenging the worker's compensation marketplace. More than fifteen years later, CCSI continues to pursue that mission, and through strategic partnerships with other leading companies, is pioneering the field of medical information management systems.

## Challenge

In the 2000, CCSI needed to upgrade its information systems. A new system was needed to review and re-price medical bills submitted to CCSI's clients – primarily worker's compensation insurance companies. The new system had to run on a local network and support a trained staff of up to 50 users. It needed to handle the processing of thousands of medical bills daily, and be capable of generating batch reports at night. The worker's compensation rules, regulations and fee schedules of up to 20 U.S. states needed to be supported and correctly interpreted. The system needed to store, update and interpret large databases containing usual and customary prices for pharmaceuticals and medical equipment. It needed to be able to manage and utilize discount data from various PPO and MPN networks. Finally, before deployment, the data from the existing MS FoxPro database needed to be converted into the new format used by the new system. This included millions of medical bill records, tens of thousands of claim and provider records, and millions of fee schedule records.

## Solution

Microsoft's Visual Basic was used to create Medical Managed Audit 2000 (MMA 2000). MMA 2000 utilized a multi-tiered, object-oriented architecture that separated business logic from interface and data access code. Separate business logic classes were written for each state that the system supported. This made it easier to maintain the extremely complex business rules involved in supporting the laws for multiple states. The database was built using Microsoft's SQL Server. Stored procedures and SQL jobs were written to execute automated processes. A separate administrative program was written to support these automated processes as well as other management tasks. A set of powerful automation tools were invented to make it easy for administrators to configure, monitor and troubleshoot automated tasks.

S.O.B.	Code	Med. Cpt.	Description	Billed	Allowed	Ad.
11-19-2002	97110	00 1	THERAPEUTIC EXERCISES	\$40.50	\$29.89	148 82
11-20-2002	97110	00 1	THERAPEUTIC EXERCISES	\$40.50	\$29.89	148 82
11-20-2002	97110	00 1	THERAPEUTIC EXERCISES	\$40.50	\$29.89	148 82
11-27-2002	97110	00 1	THERAPEUTIC EXERCISES	\$40.50	\$29.89	148 82

## Benefits

MMA 2000 elevated CCSI into the current state of information technology. This drastically reduced downtime, as well as the amount of time required for management and support tasks. It also simplified data exchange with other business partners. Overall, MMA 2000 significantly improved the workflow of CCSI's daily operations.