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## Background

CaseManagerPro was conceived in 1999 when the newly formed Solutions in Software, Inc. was engaged by a major mass tort litigation firm to systemize management of thousands of asbestos cases. Browser-based technology was required so a central system could serve offices throughout the U.S. The relatively early adoption of SQL-Server proved prescient as it became the industry standard over the next five to seven years.

The complexity and volume of multi-party cases, documents, dockets and processes, task assignments, and so on, required an intricate data structure, a very stable code base, a manageable user interface and a robust reporting capability. The first three large clients (125, 350 and 600 users) were deployed in 2001 and 2002, and all continue using CMP today. The current third generation program, CMPv3, took a major leap forward in ease of use with advanced navigation, layout and search capabilities, as well as major advances in its DMS and workflow management.

## Architecture and Technology

CaseManagerPro is a multi-tier browser-based legal case management system that has many benefits over traditional client/server architecture. The interface operates effectively through all major brands of browsers, though Internet Explorer is recommended as it is the standard applied for development and testing. A client-side ActiveX/COM component provides additional document management and assembly features that operates only in a Windows environment.

The three tiers include the User Interface front tier for viewing and editing the display and content, the middle tier that processes dynamic content, and the back tier database platform. The system is universally accessible with no pre-defined limit of the number of concurrent session instances (logged-on users). The three tier architecture provides optimal performance, flexibility, maintainability, and scalability, without exposing users to the complexity of distributed processing and database design.

The front tier of CaseManagerPro is built to interface with the server-based software using mainstream browser technology. The client side code uses Object Oriented JavaScript, DHTML, and AJAX. Server-side code and technologies include Windows .NET Applications with C# for server-side web page processing, web services and applications, ASP.NET with C#, and Classic ASP with JavaScript.

The online document viewer is a tightly integrated HTML5 program called “Prizm Content Connect” developed by Accusoft. Contact us for the latest update information or visit [Accusoft.com](http://Accusoft.com).

The CaseManagerPro application was designed using Object Oriented Methodologies from the ground up. This provides important benefits including maintainability through common code usage, which provides for less analysis effort and complexity in system design as well as easier verification by the user, and reusability of design objects that provide a foundation for customization and enhancement.

CaseManagerPro runs Microsoft SQL Server to manage enterprise-level data requirements including a sophisticated relational design and extreme data and processing volume. Benefits of SQL Server include very low application downtime, high scalability, excellent performance, tight security controls, and its substantial market presence and support resources. It also provides reliability, availability, manageability, scalability, and interoperability to the CaseManagerPro enterprise level application.

The database for CaseManagerPro is designed to minimize redundancy while maximizing throughput. This results in a Third Normal Form that eliminates data redundancy (for example, storing the same data in more than one table) and ensures rational data dependencies (only storing related data in a table). This reduces the volume of stored data and ensures that data is logically stored.

If you require further information about the design of CaseManagerPro, contact us at [info@lucidiq.com](mailto:info@lucidiq.com).