



HDMS

Advanced Analytics Helps HDMS Retain a Competitive Advantage in the Highly Competitive Healthcare Field

To retain a competitive advantage in the rapidly changing healthcare field, Health Data Management Solutions (HDMS) needed to update their Data Analysis and Reporting Tool (DART™), an online data analysis and reporting solution that delivers powerful analytical tools to healthcare professionals. The most comprehensive and easy-to-use reporting tool available in the industry, DART helps healthcare professionals analyze and detect trends and opportunities in their data. Qualex Consulting Services, Inc., implemented a solution that provided reports and displays that could be dynamically changed depending on who was logged into the system.

The premier provider of healthcare decision support solutions, HDMS empowers employers and health plans to maximize the value of their healthcare data through powerful, specialized and customized, web-based reporting and analysis tools.

TECHNICAL CHALLENGES

To remain competitive, HDMS must have the capability to load their databases quickly and customization – specifically the ability to make database design and structural changes instantly – is imperative. Because the DART data structure includes information that comes from such disparate sources as participant enrollment and medical and pharmaceutical claims, the amount of data that must be processed can be overwhelming. There are over 100 standard report templates alone and DART also has the ability to conduct “what if” analysis that increases the reporting possibilities exponentially. Since this analysis must be done

quickly and without additional consulting support or cost, the solution must be robust and stable.

The DART database is populated from a disparate set of sources, including health claims, pharmaceutical claims, enrollment, as well as provider and specialized data sources. DART standardizes the client data around both dimensions and measures that are either specifically set or customized by the user. Because the data can be altered and/or enhanced by the end user to meet their unique needs, the system must be able to “drill down” and extract the information quickly and correctly and then produce it in a way that is most applicable to the user.

Security was also a big issue; every user – from the CEO in his corner office, down to the data clerks who actually enter most of the records – must have access that is comparable to their level of security.

THE QUALEX SOLUTION

To allow HDMS to retain a competitive advantage in the rapidly evolving healthcare field by providing a solution that could deliver rapid, comprehensive data that was both accurate and secure.

Under an iQ-Maintain contract, Qualex was brought in to assist with the upgrade of the current HDMS client application that used a combination of SAS and Futrix. Because Qualex had assisted in some of the initial development several years before, they were uniquely qualified to assist HDMS.

RESULTS

The solution’s ability to quickly and accurately extract data from the

underlying datasets helped users analyze the data to shed light on such things as HDMS' disease management programs. Many customizations were built into the standard solution and when HDMS decided to upgrade their software, some evaluation was needed to determine which parts of the existing application required modification. These enhancements allowed for a reduction in some of the customizations previously built. In addition, Qualex was able to assist with the installation and configuration of the new software, as well as in the integration of the overall application.

The solution helped HDMS by providing them a well-structured data model for the healthcare industry.

"Qualex Consulting has provided us with top-notch development services. They are fast, flexible and forward-thinking. They integrated with our existing team extremely well."

HDMS Team



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"There were many challenges above and beyond those normally expected during a TIS implementation. Thanks to the dedication and expertise of the Qualex TIS implementation team and the support of the Qualex staff and the UTS team, these challenges were overcome and the project was a success."

Lester Jones
Qualex Project Manager