



Software Assurance Services Case Study: Corbin Test Engineers Assure that Software Meets Client Requirements

Client Need: One of our clients needed to ensure that [its] new software programs were actually meeting its stated requirements. The client also wanted to make sure that end users would be able to operate the new system and that it would work properly and as designed.

Corbin Solution: Our multidisciplinary team took a three-pronged approach to make sure that the software would meet client requirements. First, our coding specialists compared the software code to the requirements to ensure that the development project properly captured and coded all of the requirements. We used the requirements traceability matrix as our checklist to complete the process. Second, our test engineers analyzed the test plans that had been developed, and supplemented them with our own independent tests to ensure that the developed software worked as intended. We identified issues that were in turn fixed in a timely manner. Third, our business process team conducted a readiness study of the end users to ensure that they had the proper training, tools, and support system in place to operate the new system. We reported our results to the client; our report was a key component in the client's decision to move the development project into production (the "go-live" decision).

Client Benefits: The client received a superior software product.

- **Accuracy:** The final software more precisely reflected client requirements.
- **Better maintainability:** Because we thoroughly reviewed the software coding and configuration, the developer documentation was clearer and standardized. This promotes easier subsequent development and update.
- **More confident end users:** By assessing the readiness of the end users, we were able to identify and resolve their concerns. We identified areas where greater resources would be needed during deployment to help achieve long-term stabilization of operations with the new software program.
- **Better performance:** Since we tested the software for reliability, there were fewer performance problems once the software entered the production phase.