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Charles Irek, CTO, Diagnosoft

How a Clinical Analytics Company is Clearing Interoperability Hurdles with Caristix Technology

Customer Background

- Diagnosoft provides clinical analytics for hospital stakeholders.
- Diagnosoft technology aggregates relevant patient data and generates longitudinal and real-time meaningful views of patient health status.
- Diagnosoft delivered the first FDA-510k-cleared software to analyze cardiac MR images.

Business Situation

In 2007, Diagnosoft launched a desktop software package for cardiac image processing and quantification. The company’s initial goal was to build a small, proprietary connectivity solution to manage a handful of messages. But as they developed new products, their interfacing needs grew. CTO and Vice-President of Software Engineering Charles Irek said, “We looked at the pieces holistically. And we realized we couldn’t go with a brittle, homemade interface.”

“We were looking to minimize the guesswork and the rework around interfacing in hospitals. We wanted to be able to get in on Day 1 with confidence and solid underpinnings. We didn’t want to get into our first or second customer sites and make rookie mistakes— we wanted to front-load for success and do things right.”

Time Savings

5 month deployment timeline reduced to 3 months.

Risk Reduction

Avoided additional 2 weeks of rework because of Caristix interface scoping features.

Decision Process

Diagnosoft identified their needs around interfacing: the ability to reuse resource-intensive interface development and deployment work and eliminate process waste during customer engagements. They then set a budget and researched options. “After we were introduced to Caristix software, we did a quick cost-benefit analysis. The question boiled down to: was it worth having a failure at our first site? And the answer was no. The management team and investors discussed this, and my job was to protect us when we got into integration and interfacing with HIT systems,” said Charles Irek.

Solution

Diagnosoft selected Caristix software and consulting. Consulting work included a hands-on workshop to co-design the interface deployment workflows that Diagnosoft customer engagements would require.

“The biggest wow factor with the software is that Conformance takes so much of the guesswork out of the HIS engagement with a customer. We’re minimizing risk exposure, minimizing rework, and increasing the quality of output.” Diagnosoft expected that the risk reduction enabled by capabilities such as profile development and documentation, reverse-engineering, and automated gap analysis would enable their engineering and deployment teams to reduce timelines and deliver better-quality interfaces sooner.

Findings

Diagnosoft anticipated that their initial analytics deployments would take 5 months to complete. By incorporating Caristix software, initial deployments are at the 3-month mark, a savings of 40%. The Caristix capabilities that made the difference include HL7 log reverse-engineering, automated gap analysis to build an interface, and document generation to facilitate client communication. Diagnosoft also assessed risk reduction enabled by Caristix software. Due to the detail and quality of the customer-specific HL7 specifications the team was able to generate at the scoping stage, they eliminated 2 weeks of rework time that would have otherwise occurred due to wait times for client feedback and subsequent adjustments.

Products and Services

Diagnosoft purchased Caristix Conformance software for scoping and documenting HL7 interfaces. The software was delivered with a training and consulting package to develop interfacing and interoperability workflows for Diagnosoft’s customer engagements.

About Caristix

The average US hospital runs up to 100 IT applications. Not a single one of them can share patient information out of the box. So hospitals and vendors turn to data interfaces – 50 to 100 of them in an average hospital. Each interface can take months of painstaking manual work to set up.

Caristix has developed a software suite to automate manual interface work. Our software reads HL7 data and outputs a list of interface requirements. As a result, Caristix software can reduce months of work to a few days. Reduce interface deployment time by 50%, reduce hospital testing time by 75%, and cut interface maintenance time by 90%.


Learn more at www.caristix.com.


About Diagnosoft

Diagnosoft is building innovative cardiovascular clinical analytics and image analysis software solutions designed to improve quality and reduce the cost of care. Our solutions empower proactive and personalized patient care by providing physicians with actionable clinical signals, in real time, concerning any immediate or probable/predictable future clinical events and/or changes with the patient health status. Diagnosoft focuses on detecting such events that are the leading cause of hospital admissions, or re-admissions, deterioration in patient health, and premature mortality.

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