FRESCHE SOLUTIONS

+

Case Study

X-Analysis

Fiserv Uses Fresche's X-Analysis to Document Core Banking Engine

fiserv.

Fresche's X-Analysis helped Fiserv keep its documentation in step with changes to its software, increasing the quality and timeliness in development and support.

X-Analysis
Key Functionality

Automated graphical documentation

Extraction of business rules from RPG/COBOL

Powerful Impact Analysis

Design, quality and complexity metrics

Extraction of relational data models from RPG/COBOL/SYNON engineering efforts

Automated RPG/COBOL/SYNON and DB Conversion

Background

Fiserv CBS Worldwide is a unit of Fiserv, Inc. (Nasdaq: FISV), a Fortune 500 company that reported $4.8 billion in total revenues for 2013 and serves more than 14,500 clients around the world. Fiserv CBS Worldwide delivers end-to-end business and technology solutions for retail financial organisations, consumer finance institutions and credit unions throughout Europe, Asia-Pacific, Latin America, the Caribbean, Canada and the United States. Through its offices in the USA, UK, Poland, Singapore, Australia, China, Indonesia, Colombia and Costa Rica, Fiserv CBS Worldwide enables almost 300 financial institutions to deliver integrated solutions for managing the entire customer lifecycle from core banking to multi-channel customer contact and data warehousing.

Fiserv first encountered Fresche's X-Analysis documentation tool while working with one of its clients and was impressed by the tool's flexibility, ease of use, and reputation as the leading IBM i modeler on the market. When Fiserv decided to document its core banking engine, which is used by almost 300 financial institutions to deliver integrated banking and data warehousing solutions, X-Analysis was the logical choice, says Carol Cowen, Fiserv's Vice President of Marketing and Strategic Business Growth.

Challenge

Fiserv Inc is a leading global provider of end-to-end business and technology solutions for retail financial organizations, consumer finance institutions, and credit unions. The advancement of technology began to place pressure on the static documentation process, and the need for comprehensive and flexible documentation became critical.

Solution

With Fiserv's RPG code documented and kept up-to-date in the X-Analysis data repository, solving problems or adding functionality became much easier. X-Analysis combines highly detailed cross-referencing with high-level analysis and documentation in a single product, making it the ideal tool for IBM i application design recovery, analysis, and documentation. Some of the advantages of the tool include data modeling, structured English source code views, application subdivision, static project document wizards, data analysis, and business rule logic analysis. Fiserv programmer Malcolm Sharp was particularly impressed with the tool's easy-to-use and highly interactive graphical structure, which lets both IBM i programmers and those with little or no programming knowledge use the tool, a feature that distinguishes X-Analysis from other programmer-oriented tools and standard IBM i cross-referencing features. In addition, the tool is capable of accurately documenting even the largest systems and now functions as a plug-in to WDSc and other Eclipse-based editors.

Results

Once the RPG code of Fiserv's application was documented and kept up-to-date in the X-Analysis data repository, solving problems or adding functionality became much easier.

"Fiserv's experience with Fresche's support team has also been phenomenal", says Rohit Patel, Fiserv's Vice President of iSeries Technical Development. "Fresche is extremely receptive to questions and suggestions and helped Fiserv modify the tool and configure the system to do exactly what the company needs. Fresche was willing to bend over backward for us," Sharp adds.

X-Analysis has helped Fiserv enhance productivity and understanding of its core banking application environment and is now a standard part of Fiserv's development process. Fiserv's customers have also benefited by the company's increased awareness, which has resulted in faster development time and problem determination and has also let Fiserv add valuable technical documentation to its product. "From Fiserv's perspective, the use of X-Analysis has been a smashing success," says Carol Cowen.

About Fresche Solutions

We specialize in helping companies achieve their business goals and outcomes by better managing, enhancing and evolving their IBM i application environments. Companies can count on Fresche for complete management and modernization solutions, including planning and analysis, application and database modernization, onsite development and deployment, complete project management and ongoing application support. We transform traditional 5250 systems – modernizing, connecting and extending them to meet today's end users' expectations. Companies running RPG, COBOL, CA 2E SYNON and Java applications can rely on us for comprehensive, automated solutions that optimize IBM i systems and help take advantage of technologies such as Web, Mobile, Cloud and RPGOA on the IBM i. Our complete portfolio:

- Strategy and Discovery services for planning and starting your modernization effort
- Innovative products that provide a 360-degree view of your environment and automate UI, application and database modernization
- Modernization services to help you carry out your modernization project and achieve your business goals
- Application Support Services focused on helping you improve productivity, enhance business process and optimize your application environment Support Center.

"Traditional documentation is static and soon becomes outdated as new enhancements are added to code. Fresche's X-Analysis helped Fiserv solve this problem by keeping its documentation in step with changes to its software, increasing the quality and timeliness in development and support"

- Malcolm Sharp Technical Programmer, Fiserv.

"Fiserv's experience with Fresche's support team has been phenomenal. Fresche is extremely receptive to questions and suggestions and helped Fiserv modify the tool and configure the system to do exactly what the comapny needs"

- Rohit Patel, Vice President of iSeries Technical Development.