

Information Builders is one of the largest independent software companies in the world. We work with over 11,000 customers to ensure their success by putting interactive and actionable information in the hands of everyone in the extended enterprise: employees, partners, suppliers, and customers.

Customer Profile



Andy Hanna, manager of report management and distribution at Royal Bank of Canada Financial Group.

Snapshot

Organization

Royal Bank of Canada Financial Group (RBCFG).

The Challenge

Automate a formerly manual process of reconstructing customer bank statements.

The Strategy

Tap into an enterprise data warehouse of transactional records to instantly reconstruct consolidated bank statements over any selected time period.

The Results

Improved turnaround time from 10 days to under three minutes, a tremendous boost in productivity for operations center personnel, with annual savings of \$2 million.

Information Builders Solution

WebFOCUS.

Royal Bank of Canada Automates Bank Statement Reconstruct Activities

WebFOCUS Application Saves \$2 Million per Year, Generating an Overwhelming Return on Investment

You never thought it would happen to you. The government is auditing part of your personal tax return history. They'll need to see your bank statements from 1998. No problem. You have those stored in a shoebox in the closet. Or did you put them in the attic? Uh oh...

There are many reasons why people need to reconstruct historical transactions from their personal bank accounts. If statements are lost or misplaced, they assume a quick phone call to the bank is all that is required to replace them. True enough, but few people stop to consider what a huge volume of data these transaction histories represent, or what is involved in reconstructing a specific statement from this mountain of information.

Consider Royal Bank Financial Group (RBCFG), a leading North American financial services organization based in Toronto. With

“The response time for creating a report that accesses three years of transactions is about 20 seconds. Previously, that task would have taken weeks and cost the customer quite a bit of money.”

more than 12 million customers and 4,000-plus branches, RBF’s customer transaction records dating back six years equal a terabyte of data. Until recently, personnel at RBF’s operations service centers had to laboriously reconstruct personal transaction statements by combining information from legacy information systems with microfiche records. That all changed when Royal Bank released Bankbook Reconstruct, a WebFOCUS application that completely automates the process of constructing and printing bank statements. RBF personnel use the system to instantly reconstruct consolidated bank statements in English or French, containing up to six years of transaction history for any one of their 12 million personal banking clients. The new system is yielding a dramatic boost in productivity for the operations service centers and generating annual savings of \$2 million per year for the bank.

Ever the Innovators
Chartered in 1869 as the Merchants’ Bank of Halifax and renamed Royal Bank of Canada in 1901, RBF enjoys a longstanding reputation as an innovative company. In 1961 it was the first bank in Canada to install a computer and in January 1995 it became the first Canadian bank to offer information through the Web.

“The genesis of our Bankbook Reconstruct project came from a request by our operations service centers,” recalls Andy Hanna, a manager of report management and distribution at RBF. “For years, customer service representatives there responded to requests for reconstructed statements by accessing archival data on our mainframe systems and microfiche records from a third-party company. They had to manually concatenate this information, then translate it into the appropriate language, English or French.”

The turnaround time for a reconstructed statement covering a year’s transactions could take up to three weeks. These cumbersome tasks were not only an inefficient use of RBF resources, but were expensive for customers, who were charged an hourly rate for the service. “Our operations people wanted to know if we could pull the legacy data and microfiche records together into one source for reporting,” says Hanna. “I knew this was possible. But after researching the problem, I determined it would be time-consuming and difficult to accomplish.”

Hanna’s background at RBF includes 10 years on the computer services side and another 10 years on the business side. His diverse experience came to fruition in a resourceful solution to the problem. “We had an enterprise data warehouse of transactional data that managers were using to analyze business opportunities and spot trends – things like volume of lending over past years, percentage of delinquent clients, and so forth,” Hanna explains. “I realized that since all the data was there, we could use it to reconstruct statements as well.”

Creating a New Reporting Portfolio
According to Dale Lindsay, technology liaison for the Record Capture and Information Management for Personal and Business Technologies department, within two weeks Hanna had developed a WebFOCUS prototype to prove that the concept was viable. Then, working part-time, Hanna and another developer, Jayem Nolan, spent about six months developing the complete Bankbook Reconstruct application.

Because WebFOCUS includes the powerful FOCUS language, they were able to retrieve the data, create the reports, and construct the presentation layer all from one product.

Customer Profile

“Nolan and I split the task,” says Hanna. “He developed the code while I created the business rules. We used WebFOCUS as the engine to get the data. We had plenty of experience with Information Builders’ technology, and we knew that the WebFOCUS environment was easy to learn and to use.”

The tricky part was to restructure and verify the data so it could be used to create personal transaction histories. Since the enterprise data warehouse was modeled for historical trend analysis, there were lots of tables associated with each client. “We had to make sure we were sending accurate data back to the clients, so much of the development time was spent verifying that the data was accurate and ensuring that the reporting routines produced consistent results,” Lindsay says.

Prior to the Bankbook Reconstruct project, the enterprise data warehouse was not used as an operational system, but only for trending and ad hoc reporting. “We weren’t using it as an operational system because we did not have complete confidence in the integrity of the data,” Hanna says. “My group spent months performing an exhaustive data integrity check as part of the Bankbook Reconstruct project,” he continues. “We actually spent more time on that than on the development of the application.”

From a technical standpoint, Hanna says, the primary challenge came with joining the tables efficiently to obtain good query performance. “The joining features in WebFOCUS were particularly helpful for combining tables from many sources,” he adds. “Once we devised the right joins and table hierarchies, it was relatively easy to do. When we had a question, we called Information Builders’ tech support hotline. They were very helpful.”

Seeing a Return on Developer Investments

RBF’s Bankbook Reconstruct application quickly exceeded managers’ expectations. “The response time for creating a report that accesses three years of transactions is about 20 seconds,” says Hanna. “Previously, that task would have taken weeks and cost the customer quite a bit of money.”

“The new system requires our employees to simply fill out a few fields – such as account number and to/from dates – to easily obtain that same information,” Hanna adds. “This enables the bank to charge customers a flat fee of just a few dollars for the service.”

“We can take up to six years of data and compile it into one report,” Lindsay says. “Instead of manually concatenating information from microfiche, WebFOCUS pulls it all together and gives you a running total. It handles all of the calculations automatically, allowing us to improve our turnaround time for most reports from about 10 days to less than three minutes.”

This not only saves time and money for bank customers, but also delivers huge savings for RBF. According to John Heal, national manager of operations, automating bankbook reconstruct activities has enabled the bank to reduce its operations service centers staff by 11 people, with the potential to reallocate four more staff members in the near future. “We are saving close to \$1 million in employee costs each year,” says Heal. “And because we no longer need to pay a third-party to create and manipulate the microfiche, we save another \$1 million every year.”

A number of other departments are also using the application, including Credit Management and Recovery, which is concerned with bank overdrafts, loans, and management. “When

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evaluating a claimant for a loan or a mortgage, we now use Bankbook Reconstruct to check if the customer has a history of bad checks and to evaluate his or her spending habits," says Heal. "This saves the bank a lot of money in potential bad loans."

The Fraud Detection department uses WebFOCUS for reporting, leveraging live data (not the data warehouse) to investigate possible fraudulent activity within an account. "The Fraud Detection department produces a report that lists accounts of 'known offenders,' where possible fraudulent activity is suspected," Heal explains. "WebFOCUS is used to cross-reference live data with this list." Prior to using WebFOCUS, this process was done manually. "WebFOCUS has made fraud detection much more efficient," Heal adds.

"We plan to expand the WebFOCUS application to include current account statements, Visa statements, and lots of other customer financial information," Heal says. "Now that we can easily access and analyze the data, there are many different possibilities for using it."

Extending the Returns to Tellers and Customers

Bankbook Reconstruct is currently being used by RBF personnel in the operations service centers. Phase two will involve rolling out the application to tellers in the walk-in bank branches so customers can obtain reconstructed statements on the spot. "It takes almost no training to get a teller up to speed using the system, since

it involves simple data input through a browser screen – stuff most computer users know instinctively," adds Hanna. "It's that easy."

Phase three will involve putting the service on the Web so customers can reconstruct their own bank statements with a few mouse-clicks, generating reports to PDF files or Excel spreadsheets. "We are very close to achieving this capability already, since a call center rep can already e-mail information to a customer as an attachment," adds Hanna. "We are simply ironing out the security issues and figuring out what kind of business we might generate from putting this online."

With the help of Information Builders, Royal Bank of Canada is perpetuating its reputation as an innovator. At the Information Builders Summit 2002 meeting, the company received the Highest ROI Award for the Bankbook Reconstruct Application, reporting an overwhelming 1,218 percent return on its WebFOCUS investment. "The savings we obtain from this new system benefit our customers as well our institution," Hanna concludes. "It is a win-win situation for everybody."

Find Out More

To find out how our solutions can help your company succeed, talk to an Information Builders representative today. Contact your local Information Builders office, visit us at www.informationbuilders.com, or in the U.S. and Canada, call **(800) 969-INFO**.



Corporate Headquarters Two Penn Plaza, New York, NY 10121-2898 (212) 736-4433 Fax (212) 967-6406
www.informationbuilders.com askinfo@ibi.com

Canadian Headquarters 150 York St., Suite 1000, Toronto, ON M5H 3S5 (416) 364-2760 Fax (416) 364-6552

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For International Inquiries +1(212) 736-4433



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