

TRANSITIONING FROM NETEZZA TO ACTIAN

A COST-EFFECTIVE PERFORMANCE UPGRADE

> ABOUT THE CLIENT

The bank is one of the world's largest financial institutions, serving individual consumers, small and midsize businesses (SMBs), large corporations, governments, and institutions with a complete range of banking, investing, and asset and risk management products and services. It is a global leader in corporate and investment banking and trading across asset classes. The bank manages more than 50 million consumer and small business relationships and operates through 5,000 retail banking offices. It has 16,000 ATMs, 30 million active users for online banking, and more than 15 million mobile users.

> BUSINESS CHALLENGE

The bank's in-house analytics solution, Netezza, had reached its end of life. Since IBM and its channel partners could no longer support the solution, finding a cost-effective, scalable alternative was paramount.

The need of the hour was to create a data repository for all positions across asset classes, thereby enabling ad hoc analysis of the positions and their sensitivity to market factors, such as volatility, interest rate changes, and timing. The massive volumes of structured and unstructured data also had to be processed, analyzed, and operationalized in short order.

The bank had limited visibility into its risk exposure due to outdated risk and exposure management processes. For example, risk and opportunity value was analyzed through batch data dumps once a day. It needed greater insights, delivered in sub-minute intervals, multiple times a day. Furthermore, additional criteria had to be met, including improved price and performance levels, ease of development and maintenance, durability, and an agreeable total cost of ownership (TCO)

> HCL-ACTIAN SOLUTION

The bank assessed several analytics platforms against the existing Netezza solution. The evaluation process, conducted over a period of several months, included a performance proof of concept (PoC), in which Actian deployed five compute node clusters versus Twinfin, which required 24 nodes. Actian needed only a fraction of the hardware that Netezza was using. Other differences were also identified based on a security audit, design previews, compression comparisons, volume handling ability, loading, stress, ad hoc queries, and an in-depth comparison between Actian and Netezza.

The solution implemented was Actian Vector, a true column store database that empowers organizations to connect, analyze, and act on big data, unlike any other analytics platform. With Actian Vector, complex queries can be processed entirely in the memory. Updates are managed without impacting the consistency of in-flight queries. As Actian Vector runs on any Windows or Linux hardware, adding nodes is trivial compared to appliance-based approaches. The solution enables organizations to use data from disparate sources, deliver next-generation analytics up to 30 times faster than the competition, and transform these insights into business value



> BUSINESS OUTCOME

- The client was impressed by Actian's level of expertise and partnership. The ability to seamlessly shift from the legacy Netezza system while improving the overall quality of data analysis made the decision easy. Actian enabled the bank to deal with both structured and unstructured data. It was capable of running complex analytics in record time, thereby lowering response times from hours or days to minutes, with on-demand integration, an extensible framework, higher performance levels and lowered TCO.
- Overall, Actian presented an easier and cost-effective transition approach, with lower development costs, fewer staffing needs, faster, complete data analysis and reporting for improved business insights, and the option to re-use existing in-house hardware. Actian outperformed the competition in nearly every category, including time to value (TTV) and response times to market changes or opportunities. Actian was able to exceed the performance and functionality levels of Netezza while lowering the overall cost of ownership.
- The bank estimates it will save \$20 million dollars over the next five years by replacing legacy technology.

Thanks to the seamless transition, the bank has already set its sights on adding distributed functionality to its consumer business sector and security group.



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