DEUTSCHE BÖRSE GROUP

Deutsche Börse AG
Frankfurt, Germany
www.deutsche-boerse.com

Industry:
Financial Services

Annual Revenue:
US$3.431 billion

Employees:
3,300

Oracle Products & Services:

Oracle Database
Oracle TimesTen In-Memory
  Database

Implementor:
Oracle Consulting

"With the implementation of Oracle TimesTen In-Memory Database to supplement our Xentric Order routing system, we can consistently offer quick transaction times to our customers. All order messages are processed within a matter of milliseconds using Oracle TimesTen." – Matthias Schamun, Senior Expert, Product Manager Xentric Order, Deutsche Börse Systems AG

Deutsche Börse AG Triples Speed of Xentric Order Routing System with In-Memory Database

Deutsche Börse is one of the largest stock exchange organizations in the world. Its product and services portfolio includes the entire process chain, from stock dealing and futures trading, clearing and processing of orders, custody of securities and the provisioning of market information, through to the development and operation of electronic trading systems. With its process-oriented business model, it increases the efficiency of capital markets, as issuers profit from lower capital costs and investors benefit from high liquidity and lower transaction fees.

Challenges

- Adhere to rigid service level agreements relating to business transaction time units while ensuring 100% persistence with maximum availability
- Gain greater analysis capabilities across the existing Xentric Order routing system, which is being used as the intermediary between the customer/bank and trading system
- Decrease transaction processing times to meet the fast-paced demands of the financial market
- Integrate the current Xentric Order software framework with existing delivery and operational systems, with minimal disruption to operations

Solutions

- Optimized access time with Oracle Database, tripling transaction performance time and reducing processing time by 70%
- Introduced Oracle TimesTen In-Memory Database and rapidly migrated time-sensitive tables, allowing quick, failsafe access to data required for time-critical, high-volume transactions
- Allowed rapid, easy access to the remaining tables stored on Oracle Database management system via the Oracle TimesTen pass through, supporting requirements for rapid transactions
- Replicated the "return-to-safe" mode guaranteeing high availability and 100% persistence of transactional data
- Reduced the order processing time in Xentric Order by approximately 70% for 95% of all orders
- Exceeded customers' expectations, with rapid implementation and service delivery times

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