

## Leveraging Oracle Exadata to Drive Data Quality and Competitive Advantage

TOP 5 U.S. BANK

This U.S. Bank has more than 50 million customers, \$2 trillion in assets, and over 7,000 branches. The Bank's Enterprise Data Management team manages over 5,200 databases across 1,500 applications.

### OPPORTUNITY

The Bank wanted to overhaul their database infrastructure to reduce costs and downtime, improve data quality and performance, and enhance reporting and analytics capabilities:

- Had dispersed database infrastructure across multiple datacenters
- **80%** of DBA time spent maintaining database infrastructure
- Was vulnerable to security threats and risk of non-compliance
- Unable to handle standard and ad hoc reporting and analytics demands

### OUR APPROACH

BIAS developed a database migration solution and created a highly automated and standardized data architecture:

- Identified primary data and security issues
- Developed **18-month** database migration plan across all 1,500 applications
- Upgraded and migrated over **5,200** databases to Oracle 12c Multitenant platform on Exadata
- Optimized use of capacity, resources, computing power to improve provisioning
- Minimized security vulnerability via latest security updates & data encryption
- Automated daily infrastructure management tasks to meet business needs
- Enabled self-service reporting and ad hoc analytic capabilities
- Revised roles and responsibilities for ongoing data structure & quality management

### RESULTS

The Bank reduced risk, increased performance, improved operational efficiency & decreased IT spend, resulting in nearly \$300M in total savings:

- Improved infrastructure provisioning by **90%**
- Decreased physical infrastructure through Exadata consolidation
- Reduced hardware and software costs by **\$40M per year**
- Improved application performance by **200%**, enhancing user experience
- Provided one-time Technology Refresh savings of **\$17M**
- Reduced Database Administrator support saving costs by **\$3.5M per year**
- Provided the architecture that improved the performance and up-time for their most critical business applications
- Prepared Bank for future Cloud architecture adoption

“BIAS has been collaborative, dedicated and responsive whenever we have asked for support or solutions. Our success in this delivery was no small task and could not have been done without the partnership we received from BIAS – who became integral team members for us.”

ARCHITECTURE AND DATA PROJECT MANAGER