

## Oracle Introduces Exadata Cloud Service X8M Quote Sheet

### Industry Analysts

“Oracle Exadata Cloud Service X8M combines the high throughput and recoverability capabilities of the Exadata X8M platform with Oracle’s second-generation Oracle Cloud Infrastructure to deliver an optimal database cloud experience,” said Carl Olofson, research vice president, Data Management Software, IDC. “Faster performance translates into less time spent on the cloud and lower cloud usage costs. Moreover, with architectural consistency across all Exadata deployment models, Oracle customers can move from on-premises to cloud or from cloud to cloud with no application changes. They also can query multiple types of data within the same database using their choice of access models. This capability can eliminate additional, excessive cloud costs and management headaches.”

David Floyer, CTO, Wikibon, said, “OLTP systems of record are growing more complex. Analytic systems are growing bigger and answers needed faster. Data-driven businesses are combining both in real-time. The cloud database technical requirements to meet these challenges include the ability to combine row and column access, integrate SQL & NoSQL databases, and support ultra-low latency & high-bandwidth IO. The Oracle Exadata Cloud Service X8M has been upgraded to provide best-in-class IO latency (~20µsecs), a hefty data warehouse (25 PB), together with excellent vertical and horizontal scaling. Wikibon assesses this service to be the highest-performance cloud database service available.”

“Exadata Cloud Service X8M is the ultimate expression of Oracle’s chip-to-click integrated cloud stack strategy,” said Holger Mueller, vice president and principal analyst, Constellation Research. “With copious amounts of persistent memory and RoCE networking, the latest Exadata Cloud Service X8M delivers a one-two punch, with both breakneck speeds and colossal data warehousing capabilities—it clearly sets the precedent for next gen computing architectures.”

“Competition in the digital economy is fierce and organizations using cloud-based services need access to innovative technologies as soon as possible. Oracle has therefore accelerated the addition of persistent memory (PMEM) into its proven Exadata Cloud Service (ExaCS). This enables organizations to take advantage of jaw-dropping in-memory processing speeds, but still leverage the flexibility of fully elastic compute and storage resources,” stated Mark Peters, principal analyst and practice director, ESG. “With its announcement of ExaCS X8M—which not only pioneers the use of enterprise-grade, persistent memory for enterprise cloud database services, but is also capable of growing to a staggering 25 petabyte data warehouse, while retaining its high levels of security, availability, automation and cost-effectiveness—Oracle is delivering capabilities that are demonstrably ahead of the pack of other commercially available cloud database services.”

“Oracle is now delivering the ‘Usain Bolt’ of database cloud services,” said Marc Staimer, president, DS Consulting. “Database task completion performance is fundamentally more important in the cloud than anywhere else because the Database cloud services charge based on computational time. Better performance equates into less computational time and a much lower bill. The Exadata Cloud Service X8M uniquely leverages Intel Optane persistent memory to reduce computational time from one to two orders of magnitude over AWS RDS and Aurora SQL. No matter which performance metric is used, Exadata Cloud Service X8M completely

outperforms the current competition. There is no workload too large with over 30X greater compute and storage scaling than Amazon Aurora or Azure SQL. Exadata Cloud Service X8M is like getting a dedicated highway lane with no speed limit just for you during rush hour.”

“With persistent memory and RoCE, Exadata X8M is a generational change for the platform that turbocharges transaction performance,” said Tony Baer, principal, dbInsight. “With Exadata X8M now available on Oracle Cloud Infrastructure, it not only delivers some of the fastest and lowest latency OLTP performance in the cloud, but also provides elasticity that supports some of the largest petabyte-scale analytic workloads as well.”

“The synchrony between Exadata Cloud and Exadata on-premises is worth every penny to customers,” said Bradley Shimmin, distinguished analyst, Omdia. “Often cloud providers offer on-premises services that look nothing like their public cloud offerings, which can cause not only data mobility issues but also undue technical debt and management overhead.”

“With the converged Oracle Database running on Exadata Cloud Service X8M, customers can run operational reports easily accessing multiple types of data within the same database,” said Richard Winter, CEO and principal architect, Wintercorp. “In contrast, with the popular cloud first data warehouse services, customers need to perform a multi-step process. For example, with AWS Aurora, a customer would invoke a Lambda function, followed by a Kinesis function—which then stores the data into S3—and only then load the data into AWS Redshift, which finally allows users to combine transactional data with analytical data. Oracle’s solution is much more streamlined and integrated than these other options while still delivering excellent performance and throughput.”

“Oracle Exadata Cloud Service X8M is easily the most elastic database cloud service available,” said Alexei Balaganski, lead analyst, KuppingerCole Analysts. “Organizations can start their database projects small with only a few CPUs and instantly decide to scale to hundreds. Since they can do it online without interrupting operations, they always remain in control of the performance vs. cost balance, whether they need to scale up their business or accommodate sudden spikes in demand.”