

Overview and Frequently Asked Questions

Oracle Buys In-Memory Data Grid Leader Tangosol: Creates First Integrated Platform that Enables Extreme Transaction Processing

Overview

On March 23, 2007, Oracle announced its plan to acquire Tangosol, a leading provider of reliable in-memory data grid software. Tangosol will be the latest addition to the Oracle Fusion Middleware product family.

The acquisition of Tangosol extends Oracle's leading Grid Infrastructure capabilities into the real time data analytics, compute intensive and high performance transaction space to offer a comprehensive system for building highly reliable, available and scalable middleware infrastructure. Oracle expects the transaction to close in April 2007; until the deal closes, each company will continue to operate independently, and it is business as usual.

Over the past few years, Oracle has made significant investments to enhance the Oracle Fusion Middleware product portfolio to deliver high performance, scalable, and reliable grid infrastructure to our customers. Our vision is to deliver mainframe quality of service using a lower cost grid infrastructure. Today's Service-Oriented Architecture (SOA), Web 2.0, and Event-Driven Architecture (EDA) are pushing backend infrastructures to their growth limits. To offload the burden from the backend processing systems, more real-time transaction processing capabilities need to be built into the middleware infrastructure. This is where Tangosol has built a highly successful product line designed to solve this problem.

Tangosol provides a proven reliable in-memory data grid technology designed to meet the new demands for real-time data analytics, compute intensive middleware and high performance transactions – often referred to as Extreme Transaction Processing (XTP). Tangosol delivers a proven solution with over 100 customers and 1,500 deployments worldwide.

Frequently Asked Questions

Product Overview and Strategy

What are Tangosol and its Product Set?

Tangosol is a leading software vendor of reliable in-memory data grid infrastructure with a product set, Tangosol Coherence, that provides continuously available in-memory data across large clusters of computers for real-time data analysis, in-memory grid computations and high performance transaction processing.

This acquisition will further Oracle's strategy of providing real time software infrastructure in key growth verticals like Financial Services, Telecommunications, Retail, Insurance, Travel and Logistics, Online Gaming, Travel, and others where the Tangosol Coherence capabilities enable applications to perform real time data analysis, in-memory grid computations and high performance transactions.

The combination of Oracle and Tangosol Coherence will have natural synergy with the Oracle Fusion Middleware product line enhancing Oracle Application Server, Oracle SOA Suite, Oracle Web Center, Oracle EDA Suite and Oracle Service Delivery Platform to have increased performance, reliability, availability and scalability with a reliable in-memory data grid. The Tangosol product line also complements the Oracle Database family working seamlessly together with Oracle RAC as a database system of record, Oracle TimesTen for in-memory relational database access and Oracle Berkeley DB Java Edition for disk based cache overflow.

Finally, the Tangosol Coherence reliable in-memory data grid technology is a fundamental enabler for the rapidly growing space of extreme high-end transaction processing. Coupled with Oracle Fusion Middleware, Oracle TimesTen and Oracle Database, Oracle will provide an integrated platform for businesses moving to this new model of transaction processing.

Performance management applications integrate with a business intelligence foundation, which can consist of an operational data warehouse or data mart, an analytics engine, business intelligence tools, and analytic applications that provide organizations with timely, proactive, actionable insight that is derived from heterogeneous historical and real-time data sources.

What is Tangosol Coherence data grid software and how does it relate to data availability?

Data grid software is middleware that reliably manages data objects in-memory across many servers. It increases application performance by providing fast access to frequently used data.

By combining data locality with local processing power, it enables high performance transaction, often referred to as extreme transaction processing (XTP). Data grids automatically and dynamically provide in-memory replication across a grid of computers ensuring guaranteed data availability in the event of a server failure. As a shared infrastructure, data grids provide a robust scale-out data abstraction layer brokering supply and demand of data between applications and data sources.

How does Tangosol fit into Oracle's overall middleware software strategy?

Tangosol Coherence adds significant customer value to the Oracle Fusion Middleware infrastructure where rapid customer adoption of Service Oriented Architecture (SOA), Web 2.0 and Event Driven Architecture (EDA) built on Oracle Fusion Middleware is driving the need for high performance, continuously available shared data services to offload and buffer analytic, compute and transaction processing cycles from backend core data processing services.

Modern architectures like SOA, Web 2.0 and EDA are enabling more agile business processes and applications but by their very nature are compounding the demand for high-performance access to shared data, creating heavy demands on backend data processing services. This is driving the need for a formal data virtualization strategy that can relieve the load on backend infrastructures while maintaining or increasing performance and having continuous availability characteristics.

How does Tangosol Coherence complement Oracle Fusion Middleware technologies?

Tangosol complements Oracle Fusion Middleware technologies with multiple integration points and differentiating capabilities including:

- Providing integrated reliable in-memory data grids to cache data for custom middleware applications
- Significantly optimizing the performance of existing high volume stateful Web applications by integrating middleware infrastructure state to the in-memory data grid
- Buffering spiky, high volume transactional application activity in-memory in the data grid enabling more even utilization of backend infrastructure;
- Accelerating data access, analytics and computations to real time for SOA infrastructure, EDA deployments and Web 2.0 applications

How does Tangosol Coherence complement Oracle Database technologies?

Tangosol Coherence complements Oracle Database technologies with multiple integration points and differentiating capabilities including:

- Tangosol Coherence boosts performance for Oracle Databases and persists all transactions to Oracle RAC as a long-lived system of record and can leverage Oracle TimesTen for very high performance ad hoc querying for exploration and data analysis;
- Tangosol Coherence will provide Oracle TimesTen with distributed caching and clustering increasing its ability to scale out capacity on demand;
- And, Tangosol Coherence supports integration with the Oracle Berkeley DB Java Edition embedded data management solution, combining the scalability of Tangosol Coherence with the efficient disk-based data management of Oracle Berkeley DB Java Edition.

How will this acquisition impact on-going development of Tangosol's solutions?

Until the closing of the acquisition, Tangosol and Oracle remain separate companies. Tangosol intends to continue to deliver enhancements and improvements to its products. After the closing, Tangosol and Oracle plan to provide continuity in roadmap and direction. Oracle plans to support and protect customers' investments in Tangosol applications. Research and development investments in Tangosol's solutions are expected to increase after the closing as it will then have the backing of Oracle's \$1.9B R&D budget.

How integrated are Tangosol's products with Oracle's products?

The Tangosol product set is already integrated out of the box with a number of Oracle products including:

- Oracle Application Server state replication is fully supported by Tangosol Coherence*Web to enable state replication into the Tangosol Coherence in-memory data grid.
- Oracle TopLink can be used for persistence of Tangosol Coherence cached data transactions to backend data stores
- Oracle Berkeley DB Java Edition is optionally used for a Tangosol Coherence disk cache overflow.
- Oracle Database is frequently already deployed in backend infrastructures where Tangosol Coherence is introduced in middleware solutions because many customers are shared by the two companies.

Both Oracle Fusion Middleware and Tangosol Coherence are both written in Java and as such are highly compatible and have numerous current and future integration points as outlined in this FAQ.

Customers and Partners

Will Oracle continue to support Tangosol customers?

Yes. Customers' investments in Tangosol Coherence infrastructure will be supported and protected as the Tangosol Coherence product set will continue to be sold as independent products and will also be sold in conjunction with Oracle Fusion Middleware. Tangosol Coherence customers will get full access to the award winning Oracle Support 24X7 support infrastructure staffed by over 7,000 support engineers in 17 global support centers on 5 continents.

How is the proposed transaction between Oracle and Tangosol expected to benefit Tangosol's customers?

Tangosol Coherence customers will see the following product benefits:

- Strengthens the continuing viability of Tangosol Coherence solution with additional resources to the engineering organization

- Oracle's extensive R&D investment and technology base can further advance Tangosol's product suite and provide continuity in roadmap and direction
- Highly complementary combination of product offerings between Oracle and Tangosol

Tangosol Coherence customers will also benefit in improved service and support through the breadth and scale of Oracle's field sales, marketing and customer support organization including

- Global 24x7 distribution and support network for streamlined commercial relationship
- World's largest software support organization
- One-stop shop for applications and technology needs
- Servicing 275,000 customers in 145 countries
- 7,000 support engineers providing support from 17 global support centers on 5 continents providing support in 27 languages
- Over 14,000 software developers and \$1.9 billion R&D budget
- 19,000 business partners

How will customers' investment in Tangosol be protected by Oracle?

Customer investments in Tangosol solutions will be supported and protected. Tangosol's current product directions and product support will continue uninterrupted. Oracle is fully committed to support and continue ongoing development of Tangosol's solutions. The Tangosol's product line is seen as strategic as both an independent product line but also as a key integration point for Oracle Fusion Middleware.

Will customers using Tangosol be required to use Oracle Fusion Middleware?

Oracle plans to continue developing Tangosol's product line to function independent of middleware, on non-Oracle Fusion Middleware and on Oracle Fusion Middleware. This is consistent with Oracle's vision of selling best of breed hot-pluggable solutions to our customers.

As an Oracle customer, how can I benefit from Tangosol's products and service capabilities?

Oracle customers will benefit from the Tangosol Coherence product and service capabilities as a new capability that can be integrated into Oracle Fusion Middleware and deployed in conjunction with the Oracle Database. As outlined previously there are numerous integration points between the two companies and the product lines are highly compatible with one another.

How is the proposed transaction expected to benefit partners?

After the transaction is complete, Oracle and Tangosol partners will benefit by working with a single vendor to address customer needs for data grid solutions. Both companies' partners are expected to benefit from the complementary solutions that provide an opportunity to increase business value and drive down cost of enterprise transaction processing. Specific benefits will include:

- Access to Oracle's worldwide resources and partner investment
- Continued access to Tangosol's best-in-class reliable in-memory data grid services solutions
- Preservation of partners' investments and experience with Tangosol Coherence
- Continue commitment from Oracle to work with leading systems integrators on Tangosol technologies
- Larger footprint in the real-time space from Oracle simplifies choices for system integrators
- Complementary delivery model
- Strong commitment to continue supporting non-Oracle middleware integrations

How will Oracle continue to support and broaden relationships with Tangosol partners?

- Providing access to Oracle PartnerNetwork and establish a partner focus area for Tangosol partners
- Support existing OEM partners and expand relationships through continued product development and new integration with Oracle Fusion Middleware
- Accelerate go-to-market capabilities with Tangosol's

partners working with the Oracle PartnerNetwork infrastructure

- Work with key system integrators to drive further innovation in data grid solutions
- Build partner focus in the Oracle PartnerNetwork in data grid solutions

How is this acquisition expected to impact any existing project, deployment, or services engagements?

Tangosol and Oracle remain separate companies until the closing of the acquisition. It is not expected that this transaction will impact any existing project, deployment or services engagement.

How will Oracle provide for a smooth integration of the two companies after the closing?

Oracle is very focused on customer satisfaction and plans to provide for a smooth transition without customer disruption. Oracle is experienced with integrating companies quickly and efficiently. Oracle will provide dedicated personnel from key functional areas for integration and utilize proven templates and processes for repeatable success in integration. We will communicate regularly throughout this process to keep our customers and employees well informed.

Business Continuity

Can I still purchase Tangosol products?

Yes, Tangosol and Oracle remain separate companies until the closing of the acquisition. Please contact your Tangosol sales representative to assist you, or visit "<http://www.Tangosol.com>" for contact information.

Should Tangosol customers continue to call Tangosol support?

Yes. Until the closing of the transaction, Tangosol continues to operate as a separate business. Tangosol customers will continue to receive support and services from Tangosol, and should continue to use existing Tangosol contacts for support, professional services, and sales to address immediate and ongoing needs. We will communicate all changes and transitions occurring after the close of the transaction well in advance through these familiar channels.

Should Tangosol customers continue to contact their Tangosol sales representatives?

Yes. Until the closing of the transaction, Tangosol continues to operate as a separate business and, until further advised, customers should continue to rely on existing relationships.

Will training on Tangosol product continue?

Yes. Until the closing of the transaction, Tangosol continues to operate as a separate business. Tangosol customers will continue to receive support and services from Tangosol, and should continue to use existing Tangosol contacts for support, professional services, and sales to address immediate and ongoing needs. We will communicate all changes and transitions occurring after the close of the transaction well in advance through these familiar channels.

Will existing Tangosol customer contracts be honored after the closing of the transaction?

Yes. Oracle intends to honor the terms and conditions of existing Tangosol contracts for all existing license and service projects after the closing. Technical support will continue to be governed by the terms of the Tangosol maintenance agreement until the current support term expires. At the first renewal with Oracle, customers' support services (and not licenses) will be migrated to an Oracle License and Services Agreement (OLSA), which will govern the next support term. The OLSA will not govern customers' Tangosol license(s). New orders under existing Tangosol contracts may include order specific modifications to meet the requirements of Oracle's order taking policies.

Will Tangosol employees be retained?

Yes. The goal of this combination is to complement the offerings of Oracle.

Where can I find out more information about the proposed Oracle and Tangosol combination?

For more information, please visit Oracle.com/Tangosol.

The above is for informational purposes and may not be incorporated into a contract. IT IS NOT A COMMITMENT TO DELIVER ANY MATERIAL, CODE, OR FUNCTIONALITY, AND SHOULD NOT BE RELIED UPON IN MAKING PURCHASING DECISION. THE DEVELOPMENT, RELEASE, AND TIMING OF ANY FEATURES OR FUNCTIONALITY DESCRIBED FOR ORACLE'S PRODUCTS REMAINS AT THE SOLE DISCRETION OF ORACLE. THE DEVELOPMENT, RELEASE, AND TIMING OF ANY FEATURES OR FUNCTIONALITY DESCRIBED FOR TANGOSOL'S PRODUCTS REMAINS AT THE SOLE DISCRETION OF TANGOSOL. This acquisition is subject to the satisfaction of a variety of conditions. Oracle is not affiliated with Tangosol and Tangosol is not affiliated with Oracle until the official close of the transaction.