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Objectivity Company and Product Backgrounder

The Company

Founded in 1988, Objectivity, Inc. is a global technology leader in data management products and services for software applications addressing the most demanding data management challenges. The company's flagship product, Objectivity/DB is the leading object oriented data management platform for the real-time management of complex inter-related data. Objectivity/DB is recognized for its ability to store and manage very large volumes of complex data for event and relationship processing within mission-critical applications. These applications are used in process control, medical and telecommunications equipment, government, internet infrastructure and financial services. The Objectivity/DB platform enables organizations to monitor, analyze and respond by identifying inter-relationships or anomalies, providing real-time intelligence for predictive analysis and decision support.

The Objectivity/DB platform is utilized by ISVs, OEMs and end-users for real-time processing of complex data, document and process management, scientific computing and complex defense and security applications. The Objectivity platform enables leading telecommunications infrastructure providers to deliver faster more reliable services, government agencies to find the "needle in the haystack" in real-time, and the most prominent scientific and process control companies to analyze very large volumes of information or bring higher quality products to market faster.

For the government, Objectivity plays a special role in the technology infrastructure of the government's databases. Individual government projects have developed their own disparate islands of data in legacy databases – now these projects need to share their databases. The Objectivity platform serves as a highly scalable repository for monitoring, analyzing, reporting and real-time data fusion applications for security and intelligence agencies. Objectivity's unique distributed architecture allows the sharing of information to find the "needle in the haystack".

Objectivity sells and supports its global customer base from its headquarters located in Sunnyvale, CA. The direct sales force is complemented by a network of leading international distributors. Objectivity also offers training and consulting services to aid customers in rapid application development and implementation.

Objectivity is driven to set exceptional standards in product quality and customer care. Objectivity demonstrates its customer care through a several support and communications programs including its annual WorldView user's conference. WorldView provides customers with a venue to learn more about real-time data management solutions for complex inter-related data. They also share and exchange new ideas and advances in the VLDB market with their peers, Objectivity experts and industry leading partners.

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Objectivity is a privately held corporation. The company's investors include St. Paul Fire and Marine and AVI Capital.

Contact Objectivity by mail at 640 West California Avenue, Sunnyvale, California, 94086-2486, USA; by phone at (408) 992-7100; by fax at (408) 992-7171; by e-mail to info@objectivity.com; or via the company web site at <http://www.objectivity.com>.

Customer Profiles

Objectivity has hundreds of customers in various stages of application development and deployment. Objectivity's customer portfolio includes Fortune 500 companies, innovative startups, scientific research institutions and universities worldwide.

Customers use Objectivity's robust, highly scalable data management solution for complex inter-related data to manage and analyze very large volumes of complex data for event and relationship processing within mission-critical applications, such as those described in the following profiles.

Government

SYColeman Corporation uses Objectivity/DB for their Simulation Control System (SimCon). The SimCon System provides a common data model for a variety of battlefield simulation programs. SimCon provides an integrated data fusion framework which standardizes and distributes data to multiple military simulations. The SimCon System integrates a suite of military simulations using a pair of custom applications to manage and analyze complex data for event and relationship processing using Objectivity/DB.

Scientific – The World's Largest Database

Stanford Linear Accelerator Center (SLAC) has stored over 895 Terabytes of production data using Objectivity/DB. At SLAC, Objectivity/DB has been used by the scientists of the International BaBar Collaboration who are investigating the asymmetry between matter and antimatter in the universe. The BaBar Collaboration has written over 5 million lines of C++ and Java code to refine and analyze the data produced by colliding two particle beams into each other in the PEP II accelerator.

Telecommunications

Navini Networks uses Objectivity/DB to power their IP-based element management system (EMS) of the company's Ripwave product line. Ripwave is a wireless broadband technology sold to telecommunications service providers around the world. Objectivity/DB is used by the Ripwave EMS for provisioning, configuration management, and network element registration and authentication as well as service level agreement management. The Ripwave system consists of the EMS, base stations and customer modems enabling wireless broadband services for both licensed and unlicensed frequency bands.

Process Control

Metso Automation uses Objectivity/DB in its metsoDNA (Dynamic Network of Applications) engineering environment. The metsoDNA provides process, machine, quality and drive controls as well as information management applications to the [pulp and paper and energy industries as well as hydrocarbon and minerals processing industries](#). metsoDNA networks all automation and information activities from field to office, enhancing decision-making abilities for manufacturing plants. Objectivity's distribution, reliability and performance provides the ability to visualize an entire plant as a hierarchical map. The Engineering and Maintenance Activity, an intrinsic part of metsoDNA, increases a plant's engineering and maintenance productivity. It ensures quality design, allows efficient changes, and provides a high degree of reliability to the automation and information networks through their complete lifecycle.

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Objectivity's Products and Services

Products

Objectivity/DB

Objectivity/DB is the leading high performance object database platform for sophisticated applications, with unrivaled support for heterogeneous computing environments. Objectivity/DB boosts developer productivity, shortens time-to-market, and provides the ideal platform for mission-critical applications requiring continuous performance and adaptability to future technologies.

Objectivity/DB includes tools for enhanced productivity and ease-of-use including tight integration with the open source Eclipse IDE, support for XML, transparent interoperability for C++, Java, Smalltalk and SQL++/ODBC applications running on Microsoft Windows 2000 and Windows XP. Objectivity/DB supports BEA WebLogic as well as IBM WebSphere plus other JCA compliant application servers. It also has full Java Transaction API (JTA) integration allowing Objectivity/DB to serve as an EJB-managed transaction resource.

Objectivity/DB also includes a High Availability Option which offers developers superior fault tolerance that ensures data and business-critical application availability despite network or system failures. It provides fault isolation and improved transaction performance by replicating system services. Additionally, Objectivity/DB multiple site user data replication for continuous availability and improved performance provides a combination of data integrity and availability not offered by other replication solutions, making it the clear choice for distributed, scalable, mission-critical applications.

A rich set of administration tools provides complete control over the database. These include: dynamically sized objects, composite objects and objects related through dynamic bi-directional links. A sophisticated object clustering mechanism allows logically related objects to be physically grouped to minimize I/O and locking overhead.

Objectivity/DB also guarantees the ACID properties of databases: Objectivity/DB transactions are fully Atomic and transactions are serialized to ensure Consistency of data; both the Integrity and Durability of data are guaranteed.

Programming Interfaces

Objectivity/DB provides programming interfaces for Java, .Net, C++, Smalltalk and SQL (ODBC) plus Container Managed Persistence for BEA's Weblogic. Objectivity provides full support for Java, including a language binding compliant with the ODMG 2.0 standard, and offers the highest performing solution in the industry due to its unique "single process model" architecture for Java-based applications. This architecture, where the Objectivity database interface runs in the same process as the Java Virtual Machine, is faster because valuable processing cycles are not wasted on constant process switching. Objectivity for Java fully supports Java multi-threading and transactions can share threads or have a thread dedicated to a particular transaction.

Objectivity/C++ supports the ANSI standard C++ language and has added persistent versions of the Standard Template Library (STL), which allows developers to create, store and retrieve database items using the powerful STL methods.

Objectivity/SQL++ provides a complete ANSI-standard SQL interface, giving powerful access to Objectivity/DB object databases using readily available SQL-compliant tools running on a number of Windows and UNIX

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platforms. It includes SQL3 object extensions that support the expanded modeling and object database capabilities available through Objectivity/DB. Objectivity/SQL++ requests can use ANSI-standard SQL and object extensions for inheritance, relationships, and methods as well as non-SQL data types such as arrays.

High Availability

To provide continuous availability, Objectivity offers High Availability Option. The High Availability (HA) ensures data availability in the event of system failure and provides sophisticated data replication across geographically dispersed servers.

Platform Support

The product line is available on SGI Altix servers and most other major platforms, including AIX, HP-UX, IRIX, LynxOS, Red Hat Linux, Solaris, Tru-64 UNIX and Windows. Full interoperability is provided across platforms. Data created by applications on a 32-bit NT platform can be read, updated or deleted by applications on a 64-bit UNIX platform.

Frameworks

Objectivity provides several frameworks for application developers. The Objectivity Open File System (oofs) provides a customizable interface between Objectivity's distributed, scalable database and high-end storage solutions like HPSS or other Hierarchical Storage Manager Systems. The Objectivity/Secure framework provides a customizable interface between Objectivity's distributed, scalable database and customer-provided security solutions such as RSA and PGP.

Services

Objectivity offers a comprehensive range of technical support programs to ensure the successful development and deployment of mission-critical applications. The technical support team has the expertise and hands-on experience to assist with any and all challenges that development teams face.

To ensure the optimal performance and reliability of production databases, Objectivity also provides a wide range of training and consulting services to assist customers with system architecture and the development of data models.

Standards Development and Compliance

Standardization has been critical to the broad acceptance and adoption of object database technology. Standards provide interoperability, compatibility, and eliminate risk for users.

Within the arena of object databases, there are a number of relevant standards bodies. The Object Management Group (OMG) is a key standards organization for distributed object management. Related to the OMG is an organization called the Object Database Management Group (ODMG). Objectivity was a founding member of the ODMG and has been instrumental in the development of the current ODMG 2.0 standard. Objectivity/DB is compliant with the ODMG's standards.

Lastly, SQL is a key standard for relational databases. Objectivity provides full SQL access to Objectivity/DB and has added object extensions to SQL to enable a user to take advantage of much of the functionality of an object database from within familiar SQL/ODBC tools such as Crystal Reports.

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