

Choosing SQL Anywhere® for ISV Applications

PRODUCT DATASHEET

"We chose to move to SQL Anywhere for performance, which is very key in high-speed production and warehousing facilities. Without a high-performance database, our solutions simply won't work."

DAN HARE
CO-FOUNDER AND VICE PRESIDENT,
MATRIX SYSTEMS & SOLUTIONS

"SQL Anywhere has provided us with a full function relational database management solution that is cost-effective, maintenance free, and continuously evolving. From our experience with the services we've received and with using SQL Anywhere, we feel very confident about continuing to use SQL Anywhere as our products evolve. The result is better functionality and performance for our customers and easier and faster development for our engineers."

SIDDHARTH RAM
GROUP ARCHITECT,
INTUIT

Selecting a database to use with your application is not always the easiest task. For instance, some of your smaller customers may not have the IT resources to carry out the maintenance requirements of some databases, while your larger customers may demand a system that can scale to a very large number of users. And so you face a dilemma — how can you minimize the support requirements for your smallest customers while offering the performance demanded by your larger ones? For many of these environments, SQL Anywhere is the answer.

SQL Anywhere is an enterprise caliber database that delivers high performance out of the box. Yet SQL Anywhere has been engineered from the beginning to be widely deployed in environments that may lack any IT resources to maintain it. Furthermore, SQL Anywhere is packed with many features that simplify the task of developing applications and integrating with external systems, giving your developers a rich, easy-to-use database platform to work with.

With over 10 million deployed seats, 12,000 customers, 1,000 partners, and many industry awards, SQL Anywhere has proven itself in server, desktop, mobile and remote office applications. That's why companies like Intuit, and Pearson Digital Learning use SQL Anywhere in their software products, and organizations like Tasting Baking Company, Caremark, and the U.S. Air Force have incorporated SQL Anywhere into IT systems running in their frontline environments.

SMALL FOOTPRINT, ENTERPRISE CALIBER

SQL Anywhere Server is an enterprise caliber database without the bulky characteristics of other enterprise databases. More than 15 years of innovation, designed to make it work in an ISV's frontline environments, results in a highly efficient enterprise database server that is able to operate on hardware platforms with a wide range of memory, hard disk and CPU resources. SQL Anywhere Server has the same enterprise caliber features found in other leading databases yet it:

- Requires as little as 20 megabytes of hard disk space for deployment
- Uses significantly less memory (RAM) than other databases
- Supports more hardware platforms

COMPARISON: ENTERPRISE CALIBER FEATURES IN LEADING DATABASES

"We chose SQL Anywhere after a thorough evaluation of all the possible PC databases. SQL Anywhere is the fastest, most reliable, and lightweight database in its class."

PAT HOUSE
EXECUTIVE VICE PRESIDENT AND
CHIEF OPERATING OFFICER,
SIEBEL SYSTEMS

"SQL Anywhere is core to our operation. It provides a platform that works not only in a mobile environment, but also supports a very large database. We can actually provide this state of the art technology not only to the large agencies that have IT staff, but also to the small agencies that may have no IT staff."

MICHAEL KRAMER
CEO AND PRESIDENT,
HEALTHWYSE INC.

Feature	SQL Anywhere 12	Oracle 11gR2 Standard Edition	IBM DB2 9 Workgroup Edition	Microsoft SQL Server 2008 Workgroup Edition	MySQL Enterprise 5.1
Advanced SQL including OLAP functions	X		X	X	
Full transaction processing	X	X	X	X	1
Built-in referential integrity with cascading updates/deletes & data integrity	X	X	X	X	1
Row-level locking	X	X	X	X	1
Snapshot isolation	X	X	X	X	X
Materialized views	X	X	X	8	
Table encryption	X	X	X	X	
Column compression	X				
External triggers& stored procedures for SQL, Java, .NET and Perl	X	X	X	2	7
Job scheduling and event monitors	X	X	X	X	X
Parallel back-up and recovery features	X	X	X	X	
Database mirroring & fail-over clustering	X	3	X		3
XML support	X	X	X	X	4
Spatial data	X	X	9	X	X
Automatic multiprogramming level tuning	X				
Produce/consume Web Services using SOAP, JSON, XML and HTML	X			5	
Performance tuning wizards	X		X		
Parallel index operations	X	X	X		X
Resource governor	X				
Full text search	X	X	X	X	1
Database files can be moved between all supported operating systems	X				1
Supports Windows, Linux, Unix and Mac O.S. families	X	X			X

1. Dependent on the storage engine used
2. Java and Perl stored procedures are not supported
3. Support for clustering
4. Limited XML support
5. Can only consume Web Services
6. Requires add-on
7. Java, .NET and Perl stored procedures are not supported
8. Does not support view matching
9. Limited support

High performance out-of-the box

While other leading database vendors have optimized their databases to run on expensive, high-end hardware, SQL Anywhere Server achieves impressive performance on inexpensive desktop, server and handheld platforms. Customer deployments and performance benchmarks show that SQL Anywhere Server databases can scale up to thousands of active users and hundreds of gigabytes of data containing hundreds of millions of rows.

SQL Anywhere Server's impressive performance is often achieved without any configuration because it is designed with many self-tuning features. Some of the features that help applications achieve high performance out of the box include:

- Self-tuning query optimizer
- Dynamic cache size adjustment
- Inter-query and intra-query parallelism
- Snapshot isolation
- Self-healing of column statistics
- Automatic multiprogramming level tuning

SQL Anywhere also comes with a host of wizards, tools and utilities that can be used to further improve database server and application performance. For example, using captured database activity the Application Profiling Wizard recommends system changes based on profiles of stored procedures, functions, triggers and events, identification of deadlocks, database schema design. The Index Consultant analyzes the performance benefits of different possible indexes.

MICRODEC PUTS SQL ANYWHERE THROUGH ITS PACES

SQL Anywhere's Adaptive Server® Anywhere was selected to power a new multi-user application developed by IT recruitment solutions provider Microdec Plc. Profile 2000 manages the entire recruitment process from the initial registration of a client to hiring an applicant.

- Demonstrated high-performance running more than **1,300 active, connected users** on a single database with **30 million records**
- Surpassed benchmark requirements on an 18 GB SQL Anywhere database with **3,900 concurrent connections**
- **Performed more than 400% faster** than customer benchmark requirements overall, with some search results over **4,700% faster**
- Successfully met extreme usage scenarios, compressing a typical month's worth of particular database insertions into a **two hour period**

EASY TO EMBED, ADMINISTER AND SUPPORT

SQL Anywhere has been deployed more than 10 million times, very often embedded in server applications and installed on laptops, desktops, and mobile devices that may not be seen by administrators for months or even years.

For this reason, SQL Anywhere Server is designed to be a low maintenance, highly reliable, and easy to use data management solution that can effectively operate without human monitoring or administration.

Recognizing that ISVs often need to assist their customers when something does go wrong, SQL Anywhere Server offers features that make it easy to support remotely. Some of SQL Anywhere's ease-of-use features include:

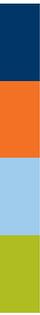
- **Self-maintenance** — With SQL Anywhere Server, it is possible to automate common administration tasks, ensuring they can be carried out regularly and systematically without an administrator present.
- **Robust reliability** — Customers tell us SQL Anywhere Server consistently provides high availability in unpredictable and uncontrolled environments. Furthermore, SQL Anywhere Server delivers parallel online back-ups and automated failure recovery, as well as clustering and database mirroring with the flip of a few switches.
- **Support remotely** — The support of remote installations and customer sites is made easier by storing all configuration data in the database file, which can be transferred to other computers with a simple file copy (even across different operating systems), by modifying server and database configuration and turning on logging features with simple command line switches and SQL commands, and through an SNMP interface enabling access from central management tools.
- **Embeddable** — SQL Anywhere Server is easily hidden behind your application so end users don't even know an enterprise caliber database is there. The database server can automatically start and stop when your application does, with no windows displayed on the screen or icons in the system tray.

"SQL Anywhere integrates well with our existing systems. It's flexible, reliable, backward and forward compatible, and handles large numbers of data exchanges each day. Our field workers aren't aware that there is a database on their device. It lets them focus on their jobs rather than having to worry about the technology."

GREG BEGG
AMR PROGRAM MANAGER,
SARGENT ELECTRIC

"We looked at other products like Oracle, Access and MySQL, and concluded that SQL Anywhere would make Optimum Control the quickest, most powerful and easy to use restaurant management solution in the business. I'd absolutely recommend it to anybody who needs a database as part of their solution."

ED ROTHENBERG
VICE PRESIDENT OF PRODUCT
DEVELOPMENT,
MICROS



SYBASE DEVELOPER NETWORK

The Sybase Developer Network (SDN) provides a variety of Web-based resources for developers who are interested in or already working with Sybase products. It also gives developers access to a community of peers who can provide assistance and advice on projects.

SDN resources include:

- Software and code sample downloads
- CodeXchange, a tool that allows developers to freely exchange code samples, utilities, scripts and more
- Newsgroups and blogs
- Product documentation
- Support options and resources
- Training and educational opportunities

- **Simple installation** — SQL Anywhere Server provides several different deployment options, including silent installation, a Deployment Wizard, which builds installation programs and packages, and the ability to deploy preconfigured database files.
- **Simple administration tools** — SQL Anywhere ships with a set of graphical administration tools to assist with everything from design, generation, documentation, and maintenance of databases and data exchange environments.

ACCELERATE DEVELOPMENT

SQL Anywhere was built on the premise that developers should be given the option to choose the tools, technologies, and platforms that best meet their needs, which means developers can leverage what they already have and know. The design and development tools included with SQL Anywhere will help get your development efforts off to a good start.

SQL Anywhere design tools

SQL Anywhere is packed with tools to accelerate your development efforts. Sybase PowerDesigner® Physical Data Model enables you to create and manage robust models of your relational data. Using the synchronization design and deployment wizards, developers can create database synchronization systems within minutes.

3rd party development tools

SQL Anywhere enables you to leverage your existing investments in development tools and skills with support for all leading development environments including Microsoft Visual Studio, Eclipse, Sybase PowerBuilder®, Borland Delphi and JBuilder, Xcode, and many more.

Data access

SQL Anywhere Server provides a native ODBC 3.5 driver, an OLE DB driver for use from ActiveX Data Object (ADO) programming environments, an ADO.NET data provider, PHP and Perl drivers, Sybase jConnect for JDBC, and an SQL Anywhere JDBC driver. It also supports embedded SQL and Sybase Open Client interfaces. Using SQL Anywhere UltraLite, developers can use C++, .NET, Java, and Embedded SQL for data access on handheld devices and intelligent appliances.

Multi-platform support

SQL Anywhere databases support a wide range of operating systems, including Windows (32 and 64 bit), Mac OS X, Linux (32 and 64 bit), Solaris (64 bit), and a range of other UNIX variants, as well as popular handheld platforms such as Microsoft Windows Mobile, RIM BlackBerry and Apple iPhone. SQL Anywhere database files are binary compatible across platforms, enabling developers to simply copy databases to multiple operating systems.

Spatial support

Spatial support in SQL Anywhere lets application developers associate spatial information with their data. Solution providers will be able to take advantage of the database server's spatial data capabilities to implement state-of-the-art geospatial solutions or enhance existing applications by adding support for geographic information.

True end-to-end security

SQL Anywhere Server includes 128-bit strong encryption options, including FIPS 140-2 validated encryption, resulting in true end-to-end security. Communications encryption protects the confidentiality and integrity of packets as they pass between the client device and the server. Strong local data encryption and user authentication requirements protect information even if security of the computer system is compromised.

SIMPLIFY INTEGRATION

Whether integrating with other enterprise systems in a server, remote office, desktop or mobile environment, SQL Anywhere provides award-winning technology to get the job done. SQL Anywhere can tap into relational databases, services-oriented architectures such as Web Services, and other non-relational data sources.

Within the database

Whether using integration features built into SQL Anywhere Server, or building custom integrations using available hooks, such as SQL functions that read and write to files or Java, .Net or Perl stored procedures, developers can establish a flow of information between SQL Anywhere Server and other systems.

XML and Web services

SQL Anywhere Server simplifies and speeds the development of database-powered Web services and XML applications by including XML import and export capabilities, SQLX functionality including XML-based queries. SQL Anywhere Server also provides a built-in HTTP server so that other systems can access the database using Web Services without the need for a Web server. Furthermore, SQL functions enable calls to external Web services from within the database.

Accessing remote data sources

With SQL Anywhere Server it is possible to connect to remote database servers and other data sources, such as Spreadsheets or even the local file system, by using proxy tables. A proxy table looks like a local table within the database, but data is stored and accessed from the remote data source.

Using data exchange technologies

Whether it is 10 or 10,000, exchanging data between an enterprise system and multiple remote applications requires robust technologies that manage the complexity of integrating with different enterprise systems, handling data exchange conflicts, unreliable networks, and scalability. SQL Anywhere provides several technologies that simplify this effort.

For database synchronization...

MobiLink™

MobiLink provides secure, bi-directional synchronization of information between remote SQL Anywhere Server or UltraLite® databases with a variety of relational databases including SQL Anywhere Server, Sybase Adaptive Server® Enterprise, Oracle, Microsoft SQL Server, MySQL and IBM DB2. MobiLink also includes a server API that enables synchronization with non-relational data sources such as application servers, Web services, messaging systems, files, spreadsheets and proprietary solutions.

SQL Remote™

Based on a store and forward architecture, SQL Remote can replicate data using a file or message transfer mechanism such as FTP or email. Only data changes are sent, minimizing communication costs. SQL Remote preserves transactional integrity, making it ideal for many business applications.

For services-oriented architectures

QAnywhere™

QAnywhere facilitates the development of robust and secure store-and-forward messaging applications that can interface with JMS-based application servers such as WebSphere, WebLogic, and EAServer, and enterprise messaging systems such as WebSphere MQ and TIBCO. It extends the MobiLink server to function as a messaging server, either independently or in conjunction with traditional database synchronization configurations.

Mobile Web services

QAnywhere provides new support for mobile Web services, allowing mobile applications to reliably and securely make Web service requests while disconnected and receive responses when reconnected to a network. Applications can make object method calls in the traditional manner automatically causing QAnywhere to build a SOAP request, and managing the store and forward transmission of requests and responses. Furthermore, responses can be received even when an application is no longer running or across different instances of an application.

SQL ANYWHERE DEVELOPER EDITION

The SQL Anywhere Developer Edition is offered at no charge for development and testing. It includes all of the features of the deployment version of SQL Anywhere, and will not expire at any time. Download your copy at: www.sybase.com/sqlanywhere

PARTNER FOR SUCCESS

Sybase views customers as long term partners and not just 'buyers.' You're not on your own when you work with SQL Anywhere. Sybase has the resources of one of the world's largest independent software companies behind it. For example, Sybase's Customer Service and Support organization across North America:

- Achieved Support Center Practices (SCP) Certification for four years
- Won the WebStar Service Award for two consecutive years
- Won the InfoWorld award for best technical support in 2000, with SQL Anywhere newsgroups singled out for particular mention
- SQL Anywhere is backed by award-winning support programs, professional services, partner programs, and an international developer network

24-Hour technical support

Sybase offers a variety of support plans that provide quality technical assistance for customers who want the insurance of unlimited calls and new software version releases, as well as 24x7 telephone hotline coverage for critical issues.

Developer community

Our developer network provides a single resource for technical information about our products, including product beta programs, evaluation software, code samples, EBFs, white papers, and more.

Professional services

Our experts combine innovative thinking, state-of-the-art technology, and proven industry-specific knowledge to accelerate the delivery of reliable, enterprise-wide solutions, so you can maximize the return on your technology investment. From helping you define your strategy, through complete delivery of your mission-critical applications, Sybase Professional Services provides the innovation and quality that is critical to your success.

Partner programs

With more than 1,500 partners, Sybase's Partner Program offers sales and marketing programs and services to help members compete and win in today's market. Aimed at VARs, OEMs, system integrators and technology companies, the program offers a range of programs and benefits tailored to meet your needs.

POWER YOUR APPLICATIONS WITH SQL ANYWHERE

Here's another compelling reason to give SQL Anywhere a try: it's free for developers. Download the free SQL Anywhere Developer Edition at <http://www.sybase.com/sqlanywhere.com> and see for yourself why thousands of partners and customers leverage our market leading database across a range of successful applications.

For more information on how SQL Anywhere can provide significant advantages for your needs, please visit <http://www.sqlanywhere.com> or call: 1-800-801-2069.