

The small-footprint relational database you need for mobile computing



IBM DB2 Everyplace



Highlights

- **Small-footprint, robust IBM DB2® relational database and enterprise synchronization server**
- **Support for all major mobile, desktop and enterprise platforms; access to any enterprise data source**
- **Easy administration; zero administration for device users**
- **Full support for Java™ technology for creating custom database applications**
- **Easy application development using IBM DB2 Everyplace™ Mobile Application Builder or industry-standard tools.**

Building intelligence into the business environment

The need to increase business productivity is creating widespread opportunities for vendors and manufacturers who can leverage mobile devices to connect employees with their companies' enterprise applications and data. With handheld devices, employees can gather and update data where and when it changes. They can also perform real-time queries and transmit information directly into their companies' enterprise business systems in the course of doing business. Appliances and machines are also becoming more intelligent and valuable due to their ability to gather and work with realtime data in a variety of situations.

In order to operate in this efficient way, handheld and embedded devices require robust, stable database engines with small footprints. They also need to connect with enterprise data sources, and support the widest possible range of platforms and application development tools.

“The fact that second-year college students can utilize leading-edge technology to build a sophisticated mobile computing solution has everyone here very excited about DB2 Everyplace.”

*—Dr. Stan Aungst, Department Head,
School of Information Sciences and
Technology, Penn State Mont Alto*



Do business wherever business takes you

IBM DB2 Everyplace fulfills all of these requirements and more. In addition to a small-footprint relational database, DB2 Everyplace provides a synchronization server to synchronize data on the handheld or embedded device with enterprise data sources. DB2 Everyplace also supports industry-standard tools enabling rapid application development on mobile devices.

Using open, advanced standards and technologies such as Java and XML, DB2 Everyplace supports all widely used platforms and is adaptable to new technologies that the future will bring. With DB2 Everyplace, IBM is leading the implementation of SyncML standards, which will ensure interoperability with other SyncML-compliant applications and devices going forward.

“[Of the products we evaluated] DB2 Everyplace database was the fastest and took up the least space on the PDA. DB2 Everyplace Sync Server was the quickest, the easiest to use and the easiest to set up. The differences were enormous — DB2 Everyplace screams.”

—Darrin Nelson, Vice President, eDevelopment, NetSetGo

Leading relational database in the palm of your hand

DB2 Everyplace provides the most function per footprint of any relational database in the industry. Some key features include:

- *150K footprint*
- *Industry-leading indexing and query performance with advanced database and SQL functionality*
- *Support for all major mobile platforms: Palm OS, Microsoft® Windows® CE/Pocket PC, Symbian EPOC R5/Symbian platform V6, QNX Neutrino and embedded Linux®; desktop platforms include systems based on Microsoft Win32® and Linux*
- *No database administration required by end users.*

Build applications quickly

DB2 Everyplace enables easy application development using industry-standard tools and open APIs. You can write applications in Java or C/C++ code using, for example, tools such as IBM VisualAge® MicroEdition and Metrowerks CodeWarrior. DB2 Everyplace Mobile Application Builder for Palm OS helps you get started developing applications rapidly without writing a single line of code.

Fast, reliable synchronization with multiple backend data sources

The DB2 Everyplace Sync Server enables bi-directional synchronization between any supported device and data source. The Mobile Devices Administration Center allows you to manage all mobile devices centrally, with tools to support large numbers of individual devices simply and easily. The DB2 Everyplace Sync Server also:

- *Runs on IBM AIX®, Sun's Solaris™ Operating Environment, Linux and Windows NT®/2000*
- *Accesses all major backend enterprise relational data sources through DB2 replication technology, JDBC™ or a custom Adaptor API*
- *Supports remote query and stored procedures, which enable users to query the database server in realtime*

- *Encrypts data while synchronizing to ensure secure data transfer*
- *Enables easy set up and administration of users, user groups and data access*
- *Provides advanced synchronization features such as conflict-resolution and data partitioning.*

Business without boundaries

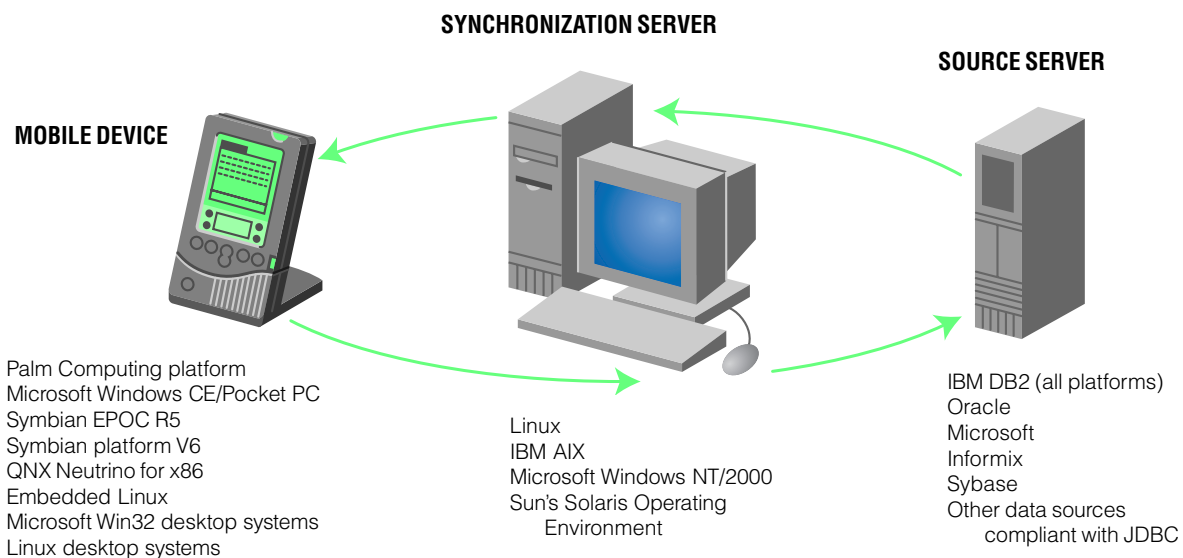
DB2 Everyplace is designed for:

- *Independent Software Vendors (ISVs) who need to provide cost-effective applications for mobile devices, such as sales force automation applications for business and productivity-boosting solutions for healthcare, social services and law enforcement. DB2 Everyplace offers ISVs a secure, robust and stable database with the most function per footprint in the industry.*

- *Makers of embedded devices such as handheld devices, cell phones, automobiles and intelligent appliances. DB2 Everyplace is an easily embedded, small-footprint database with the performance and power needed to support cutting-edge applications.*
- *Enterprise users in industries such as insurance, healthcare, education, distribution, retail, telecommunications and finance who are looking for a low-cost, easy-to-use and self-maintaining mobile data solution.*

From the IBM Data Management Group

IBM DB2 Everyplace is the product of IBM's long-standing leadership in the field of data management. And IBM's continuous innovations and product enhancements enable you to be confident that the solution you choose today will grow with your company in the future.



DB2 Everyplace database functional overview

Supported Platforms for Deployment

- Palm Computing platform
- Microsoft Windows CE/Pocket PC
- Symbian EPOC R5 and Symbian platform V6
- QNX Neutrino for x86
- Embedded Linux
- Desktop Platforms:
 - Microsoft Win32 based systems
 - Linux

Database Features

- Runs on handheld devices, embedded systems and intelligent appliances
- Small – 150K footprint
- Data access through JDBC and DB2 CLI/ODBC C/C++ API
- SQL functionality including transaction processing, multi-table joins and INSERT with subselect, IN list, RTRIM and LENGTH
- Advanced indexing including bi-directional index scanning for efficient updates and queries using less storage
- Data Definition Language (DDL) supported:
 - CREATE TABLE, DROP TABLE
 - CREATE INDEX, DROP INDEX
- Data Manipulation Language (DML) supported:
 - INSERT, DELETE, UPDATE (records)
 - SELECT (records), Scrollable Cursor, JOIN
 - GROUP BY, ORDER BY, ASC, DESC
- Expression and aggregate functions
- CHECK constraints, DEFAULT VALUE, multiple-column PRIMARY KEY, FOREIGN KEY
- Datatypes: small integer, integer, decimal, char, varchar, Binary Large Object (BLOB), date, time, timestamp
- Command Line Processor supporting data IMPORT/EXPORT
- Secondary storage support:
 - Compact Flash (CF), Sony Memory Stick
 - Secure Digital (SD) Card, Multimedia Card (MMC)
 - IBM Microdrive™
- Read-only media support: DB2 Everyplace applications can be run directly from CD-ROMs or ROM chips in embedded devices
- Remote Query and Stored Procedure adapter enables realtime data access to remote data sources

Technical Strengths

- Table size: limited by available storage (2GB maximum on 32-bit systems)
- Rows per table: limited by table size (up to 256 million on 32-bit systems)
- No limit on number of tables
- Columns per table: 128
- Indexes per table: 15
- Bi-directional, multi-attribute, multi-purpose indexes
- Maximum length of SQL statement: 2KB

DB2 Everyplace Sync Server functional overview

- Server platforms supported: Windows NT/2000, AIX, Sun's Solaris Operating Environment and Linux
- Multiple data sources supported:
 - IBM DB2 (Windows, UNIX®, zSeries and OS/390®, and iSeries and AS/400® included), Oracle, Microsoft, Informix, Sybase and other JDBC-compliant data sources
- Conflict Detection with logging and programmable response
- Encryption of data transfer (56- or 128-bit)
- Mobile Devices Administration Center with advanced administration functionality
- Index and Check Constraint management for client database
- Vertical and Horizontal Partitioning of source data
- Support for LAN, dialup or wireless environments
- File support enables administrators to distribute and maintain mobile applications and files
- Published Sync API for programmatic access to the synchronization functions

For more information

Please contact your IBM marketing representative or an IBM Business Partner, or call 1-800 IBM CALL within the U.S. Also, visit our Web site at ibm.com/software/data/db2/everyplace



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